

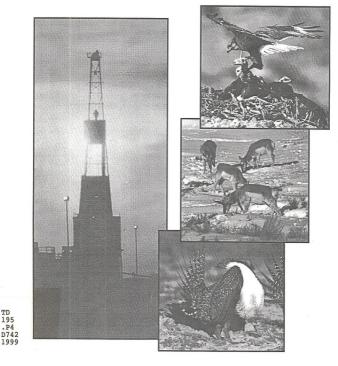
Jepartment of the Interior

Bureau of Land Management Rawlins and Rock Springs Field Offices

FES 99-41 December 1999



Final Environmental Impact Statement Continental Divide/Wamsutter II Natural Gas Project, Sweetwater and Carbon Counties, Wyoming



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FINAL ENVIRONMENTAL IMPACT STATEMENT CONTINENTAL DIVIDE/WAMSUTTER II NATURAL GAS PROJECT, SWEETWATER AND CARBON COUNTIES, WYOMING

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Rawlins and Rock Springs Field Offices Bureau of Land Management Rawlins and Rock Springs, Wyoming

This Environmental Impact Statement was prepared by TRC Mariah Associates Inc., an environmental consulting firm, with the guidance, participation, and independent evaluation of the Bureau of Land Management (BLM). The BLM, in accordance with 40 C.F.R. 1506.5(a) and (b), is in agreement with the findings of the analysis and approves and takes responsibility for the scope and content of this document.

December 1999



FINAL ENVIRONMENTAL IMPACT STATEMENT CONTINENTAL DIVIDE/WAMSUTTER II NATURAL GAS PROJECT, SWEETWATER AND CARBON COUNTIES, WYOMING

() Draft

(X) Final

U.S. Department of the Interior Bureau of Land Management

Abstract:

This Final Environmental Impact Statement (FEIS) assesses the environmental consequences of a proposed natural gas development project in eastern Sweetwater and southwestern Carbon Counter, Wyoming. This FEIS incorporates by reference most of the material presented in the Draft Environmental Impact Statement (DEIS) for the Continental Divide/Wamsutter II Natural Gas Project and is designed to be used with the DEIS. Copies of the DEIS are available from the BLM Rawlins Field Office at the address given at the bottom of this page.

The DEIS was made available to the Environmental Protection Agency and the public on April 30, 1999, and a Notice of Availability was published in the *Federal Register*. Public meetings were held in Rock Springs on May 24 and in Rawlins on May 25, 1999, and the public comment period for the DEIS closed July 15, 1999. The Executive Summary from the DEIS, modified as appropriate in response to public comment, is presented herein. The DEIS text changes, made in response to public comment and further BLM Interdisciplinary Team analyses, are presented for all modified material by corresponding section in this document. Comments on the DEIS that were received from the public and agencies are reproduced in this document, and BLM responses are presented.

The proposed project entails the drilling, completion, testing, operation, abandonment, and reclamation of natural gas exploration and production operations by Amoco Production Company, Union Pacific Resources Company, Yates Petroleum Corporation, Snyder Oil Corporation, and other operators. The proposed project would use standard procedures as currently employed by other state and regional gas field developments. A maximum of 3,000 well locations and associated ancillary facilities, roads, and pipelines would result in the initial disturbance of approximately 22,400 acres on the 1,061,200-acre project area. Numerous standard, project-specific, and site-specific mitigation measures would be employed to assure that project impacts are minimized on all important resources.

Further information regarding this document can be obtained from:

Mr. Clare Miller Rawlins Field Office Bureau of Land Management P.O. Box 2407 Rawlins, WY 82301-2407 (307) 328-4245 i

Final Continental Divide/Warnsutter II EIS

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United States Department of the Interior

BUREAU OF LAND MANAGEMENT Wyoming State Office P.O. Box 1828 Cheyenne, Wyoming 82003-1828

In Reply Refer To:

1793 (930) CD/WAM II NGP

November 30, 1999

Dear Reviewer:

This Final Environmental Impact Statement (FEIS) on the proposed Continental Divide/Wammuter II (CD/WII) Natural Gas Project located in Carbon and Sweetwater County, Wyoming, is submitted for your review and comment. The FEIS has been prepared pursuant to Title 40, Code of Federal Regulations, Parts 1500-1508, to analyze the potential impacts from natural gas exploration and development proposed by Amoco Production Company, Union Pacific Resources Company, Yates Petroleum Corporation, Snyder Oil Corporation, and other natural gas operators within the CD/WII project area. This document informs the public of the anticipated impacts of the proposed development and alternatives to that proposal. The Bureau of Land Management's (ELM) preferred alternative for this project is the Proposed Action, with additional mitigation measures which would reduce environmental impacts.

The FFIS contains corrected and new material which supplements the Draft Environmental Impact Statement (DEIS) issued April 30, 1999. The FEIS and the DEIS comprise the complete document. Please refer to the DEIS for more detailed analyses and descriptions of the proposed action and alternatives.

A copy of this FEIS has been sent to affected Government agencies and to those persons who either responded to scoping, the DEIS, or otherwise indicated to BLM they wished to receive the document. Copies of the FEIS are available upon request at the following locations:

Bureau of Land Management Rock Springs Field Office 280 Highway 191 North Rock Springs, WY 82901 Telephone (307) 352-0256 Bureau of Land Management Rawlins Field Office 1300 North Third Street Rawlins, WY 82301 Telephone (307)324-4200

This FEIS is not a decision document. A Record of Decision will be prepared and made available to the public, but not until at

least 30 days after the Environmental Protection Agency (EPA) has published their Notice of Availability of this FEIS in the <u>Federal Register</u>. We anticipate EPA will publish that notice December 10, 1999.

If you wish to comment on the FEIS, we request you make your comments as specific as possible. Comments will be more helpful if they include suggested changes, sources, or methodologies. Opinions or preferences will not receive a formal response. However, BLM will consider them in its decision.

Comments, including names and street addresses of respondents, will be available for public review at the addresses listed above during regular business hours (7:45 a.m. - 4:30 p.m.), Monday through Friday, except holidays. Individual respondents may request confidentiality. If you wish to withhold your name or street address from public review or from disclosure under the Freedom of Information Act, you must state this prominently at the beginning of your written comment. Such requests will be honored to the extent allowed by law. All submissions from organizations or businesses, and from individuals identifying themselves as representatives of officials of organizations or businesses, will be made available for public inspection in their entirety.

Sincerely,

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Alan R. Pierson State Director

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EXECUTIVE SUMMARY

Amoco Production Company, Union Pacific Resources Company, Yates Petroleum Corporation, Snyder Oil Corporation, and other natural gas operators (collectively known as the Operators) propose to explore for and develop natural gas reserves on the Continental Divide/Wamsutter II Project Area (CD/WIIPA) in eastern Sweetwater County and southwestern Carbon County, Wyoming, in portions of Townships 15 through 23 North, Ranges 91 through 99 West. The U.S. Department of the Interior, Bureau of Land Management (BLM) (Rawlins and Rock Springs Field Offices) have determined that the Operators' proposed project would constitute a major federal action and therefore requires the preparation of an environmental impact statement (EIS) in accordance with the National Environmental Policy Act of 1969, as amended (NEPA). This final EIS (FEIS) was prepared in accordance with NEPA to assess the environmental consequences of the Operators' proposed development (i.e., the Proposed Action) and is intended to provide the public and decision-makers with a complete and objective evaluation of impacts, both beneficial and adverse, resulting from the Proposed Action and reasonable alternatives.

The Proposed Action, two alternative development strategies (i.e., Alternative A-14.0-ære maximum surface disturbance per section in sensitive resource areas [SRAs], and Alternative B-30.0-ære maximum surface disturbance per section in SRAs], and a No Action Alternative are analyzed. Additional alternatives, including those considering D/WIIPA-wide well densities/spacing patterns, fewer wells, increased surface disturbance per well, phased development, no development, and development in the Adobe Town Wildernass Study Area, were considered but rejected for environmental, economic, and/or legal reasons.

The No Action Alternative analyzed in this EIS would involve the rejection of the Operators' Proposed Action and Alternatives A and B; however, denial of the development alternatives would not constitute a denial of all natural gas development on the area. Since over half of the CD/WIIPA is not federally owned and since the BLM would not deny access to these private- and state-owned lands, nor would the BLM allow the drainage of federal minerals, some development of the CD/WIIPA would occur under the No Action Alternative. For the purpose of this analysis, it is assumed that, under the No Action Alternative, development of the area would occur at levels similar to those that have occurred in the past. Additionally, the project-specific planning measures identified for the Proposed Action and Alternatives A and B (e.g., Reclamation Plan [draft EIS (DEIS) Appendix A], Transportation Plan IDEIS Appendix B], Wildlife Protection Plan [DEIS Appendix D]) would not be implemented under the No Action Alternative. This alternative serves as a benchmark, enabling decision-makers and the public to compare the magnitude of the environmental impacts of the development alternatives.

Public scoping was conducted, with scoping statements mailed to potentially interested parties and the media in March 1995 and May 1997, and public meetings were held. The DEIS was made available for public review on April 30, 1999, and public meetings were held on May 24 and 25, 1999. All issues identified during scoping, review of the DEIS, and BLM Interdisciplinary Team reviews were considered during the preparation of this document.

The proposed project is to explore for and develop natural gas and condensate reserves present in the Almond Formation and other formations at depths of approximately 7,000-10,000 ft in the CD/WIIPA. The CD/WIIPA encompasses approximately 1,061,200 acres (531,400 acres federal surface, 9.800 acres state surface, and 520,000 acres private surface). The BLM has determined that CD/WIIPA lands are available for leasing and development for natural gas resources, and previous development for these resources has occurred on the area. Approximately 845 well locations and associated access roads and pipelines currently exist or have been authorized for the CD/WIIPA. Maintenance of existing wells will continue as authorized by existing permits.

Operators propose to construct, drill, complete, operate, and reclaim a maximum of 3,000 new well locations (7,800 arres -2.6 acres/location) on variable spacing patterns within the CD/WIIPA beginning in 1999, subsequent to the release of the Record of Decision (ROD) for this project, and continuing for an estimated life-of-project (LOP) of 30-50 years. Additional construction activities include a total of approximately 1,500 mi of new or upgraded roads (10.000 acres - 0.5 mi/location), 1,500 mi of new pipelines (4,500 acres - 0.5 mi/location), five compressor stations (20 acres - 4 acres/station), one gas processing facility (30 acres), 10 evaporation ponds (34 acres), 5 disposal wells (35 acres), and 50 water wells (25 acres - 0.5 acres/well). Standard procedures as currently used in gas field developments throughout Wyoming would be employed during project development and operations, and all project activities conducted during the LOP would comply with applicable federal, state, and county laws, regulations, and stipulations. Gas from the project would be transported through existing and newly developed pipelines linking natural gas wells with existing regional pipelines in the project area.

Total maximum initial new ground surface disturbance required for the proposed project is estimated to be 22,400 acres for the Proposed Action. LOP disturbance would be approximately 15,900 acres and includes 7,600 acres of existing disturbance since these areas would be required for the project.

It is anticipated that field developments would require 10-20 years, with approximately 150 to 300 wells being drilled per year. The proposed drilling schedule would require an estimated maximum of 15 drill rigs during peak drilling operations. Each drill rig would be operated on a 24-br basis and require three crews of seven people. As many as 30 people may be at a well location for short periods to conduct specific tasks such as fracturing. It would take approximately 56 days to construct, drill, complete, and ite in each well location. Approximately 13,081 person-years of labor would be required for the project.

Access roads would be constructed, upgraded, and maintained in accordance with the transportation planning process described in the Transportation Plan (see DEIS Appendix B) and the Transportation Plan and it is anticipated that the average number of project-required round-trips to and from the field during project development would be 300 per day. The estimated average number of round-trips during project operations (production) is approximately 100 trips per day. Critical elements of the human environment that could be affected by the proposed project include air quality, cultural resources, environmental justice, floodplains, Native American religious concerns, threatened and endangered (T&E) species, invasive non-native species, hazardous or solid wastes, water quality, wetlands/riparian zones, and wilderness. Potentially significant project-specific adverse impacts to these elements and other resources may occur as follows: surface water resources under any alternative; soils and vegetation on stabilized dunes under the Proposed Action and No Action Alternatives: oil and gas resources under any alternative that denies mineral exploration/ development/resource extraction of existing leases or authorizes mineral exploration and development beyond the reasonably foreseeable oil and gas development estimates provided in BLM resource management plans (RMPs); recreational users and rural residents that are displaced from the CD/WIIPA; big game, sage grouse, and raptor productivity as a result of indirect impacts during project development under the Proposed Action; landscape character in undeveloped areas under any alternative: and visual resources in Visual Resource Management (VRM) Class II areas under the Proposed Action and No Action Alternatives.

The proposed project is generally in conformance with the BLM Great Divide Resource Area RMP (Rawins Field Office), and is entirely in conformance with the Green River (Rock Springs Field Office) Resource Area RMP, the Sweetwater and Carbon County land use plans, and the State of Wyoming land use plan. The BLM would not authorize actions that are not in compliance with the RMPs.

The CD/WIIPA has a midcontinental climate with windy conditions, limited rainfall, and long cold winters and is located in the Great Divide and Washakie Basins. The topography is generally comprised of fats, basins, badlands, buttes, and rims, and elevations range from 6,500 to 7,500 ft. Ephemeral drainages north of the Continental Divide Bow north to the Great Divide Basin, whereas drainages south of the divide flow to the Green River or Little Snake River. Ground and surface water are variable in quality, and the major uses are for industry and livestock. No significant impacts to ground water resources in the CD/WIIPA are anticipated under any alternative; however, if increased sedimentation and/or salinity results in the loss of proper functioning condition in area drainages or worsened conditions in drainages classified as functionally at risk, significant impacts may result under any alternative.

Although the final predicted air quality impacts did not change significantly, the DEIS air quality impact assessment was revised in order to address the following items: 1) the CD/WIIPA near-field particulate matter emission assumptions and impact analyses were revised using Rock Springs, Wyoming, meteorological data; 2) potential well blowdown emissions were included and the hazardous air pollutant (HAP) and ozone impact analyses were revised; 3) potential oxides of nitrogen (NOx) emissions for the CD/WIIPA wells were corrected; 4) potential NOx and sulfur dioxide (SO2) emissions from the Lost Cabin Gas Plant were corrected for seasonal operation; 5) potential particulate matter emissions from the Seneca Coal facility (Colorado permit no. 82R0258F) were corrected; 6) potential particulate matter, NOx, and SO2 emissions from the SF Phosphates facility (Wyoming permit no. CT-550A4) were added to the emissions inventory; 7) several other Colorado emission sources were correctly analyzed as potential NOx emissions, rather than as SO, emissions reported in the DEIS; 8) hourly scaling factors were applied to several Wyoming portable emission sources; and 9) a calculation error regarding potential formaldehyde impacts reported in the DEIS was corrected in this FEIS. Based on these revisions, potential air quality impacts were re-analyzed and reported in both this FEIS and a Revised Air Quality Impact Assessment Technical Support Document (BLM 1999d).

Since BLM-approved activities must comply with all applicable local, state, tribal, and federal air quality laws, statues, regulations, standards, and implementation plans, significant adverse impacts to air quality are not anticipated to occur from implementation of any of the alternative actions.

Localized short-term increases in carbon monoxide (CO), nitrogen dioxide (NO₀), zorone, particulate matter, and SO₂ concentrations would occur, but maximum concentrations would be below applicable ambient air quality standards. Similarity, HAP concentrations (to well rig operators) and the related incremental cancer risks at residences (assumed to be located either 1,650 ft (500 meters) from a well or 13,100 ft (4,000 meters) from the gas plant/compressor) would be below significance levels, even at the maximum assumed emission rates.

Although not a regulatory Prevention of Significant Deterioration (PSD) increment consumption analysis, potential direct project impacts would also be below applicable PSD Class I and II increment levels. No significant atmospheric deposition (acid rain) impacts are predicted to occur in sensitive area lakes, including the extremely sensitive lakes in the PSD Class I Mount Zirkel Wilderness Area.

Assuming project and other reasonably foreseeable natural gas compressor NO, emission rates of 2 grams/horsepower-hour (g/hp-hr), which is possible but greater than levels recently permitted by the Wyoning Department of Environmental Quality - Air Quality Division (WDEQ-AOD), there is a potential for a 'just noticeable change' cumulative visibility impact (greater than 1.0 deciview) on a single day at the PSD Class I Rawah Wilderness Area (at 1.69 deciview).

Direct project operations (under the Proposed Action or any alterative, including No Action) would not exceed this threshold alone. The visibility impact analysis assumed a 1.0 deciview just noticeable change would be a reasonably foreseeable significant adverse impact, although there are no applicable state or federal regulatory visibility standards. In addition, this predicted visibility impact may be an artifact of the modeling analysis, where distant hourly optical conditions are assumed to occur simultaneously in each sensitive receptor. Finally, given the reasonable but conservative nature of the cumulative air quality impact analysis (e.g., assuming all proposed wells would go into full production for the LOP and all compressors would operate continuously at the 2 g/hp-hr NO, emission rate), it is unlikely that a just noticeable change would actually occur in the mandatory federal PSD Class I Rawah Wilderness Area even on a single day due to the cumulative sources combined.

Approximately 150 soil map units occur in the CD/WIIPA, and most have moderate permeability and low productivity. Soil erodibility rates vary, but much of the area has erodibility limitations, most notably at sand dunes, other known windblown

deposits, and badland locations. Significant impacts to soils could occur under the Proposed Action if stabilized sand dunes are reactivated; however, with the surface disturbance limitations identified for sand dunes under Alternatives A and B, no significant impacts to soils are anticipated under these alternatives. Under the No Action Alternative, impacts to soils would occur at existing allowable levels, and if stabilized dunes are reactivated significant adverse impacts could result. Furthermore, impacts could be increased from those of the Proposed Action and Alternatives A and B due to the absence of coordinated reclamation and transportation planning efforts (see DEIS Appendices A and B).

Plant cover values in the area are variable on the three dominant vegetation types--Wyoming big sagebrush, greasewood fans and flats, and desert shrub communities. Approximately 110,668 animal unit months are provided in the 26 grazing allotments on the area. Wetlands in the area are limited (<1.0% of the CD/WIIPA), are restricted to drainage bottoms and around impoundments, and would be avoided during project development, where practical. A Reclamation Plan for the project has been prepared (see DEIS Appendix A), and adherence to the reclamation protocol specified in the plan would minimize potential adverse effects to soils, vegetation, and related land uses under the Proposed Action and Alternatives A and B. Since the Reclamation Plan would not be applied under the No Action Alternative, impacts to vegetation could be increased under this alternative. Further, potential significant impacts could occur from stabilized dune reactivation under the Proposed Action and No Action Alternatives.

Several fossil localities of importance are known to occur within the CD/WIIPA, and additional important fossils are likely to be discovered in the area. Site-specific paleontologic surveys and monitoring would be conducted as necessary to minimize potential adverse impacts to important fossils, and no significant impacts are anticipated under any alternative.

There are currently no mineral development actions proposed for the CD/WIIPA other than oil and gas development and small-scale gravel/aggregate mining operations, nor are there likely to be other mineral development proposals to mine coal, oil shale, or locatable minerals due to their apparent lack of availability. Exploration for other minerals may occur on existing CD/WIIPA leases or claims, and potential development of other mineral resources on the CD/WIIPA may be delayed until after the LOP. The development of oil and gas reserves from the CD/WIIPA as proposed by the Operators is consistent with local and regional land use planning decisions for the area; however, the oil and gas reserves extracted from the area would be unavailable for future generations. Denial of oil and gas exploration and development activities would constitute a significant impact since it would be in violation of contractual agreements between the U.S. and lessees.

During the LOP and beyond, the CD/WIIPA would remain suitable for the historic land uses of livestock grazing, wildlife use, and recreation; however, the predominant use of the area would be oil and gas development for the LOP. While no significant impacts to land use are anticipated under any alternative, some recreational users of the CD/WIIPA may be displaced due to the presence of oil and gas developments.

Pronghorn antelope, mule deer, and elk are present on the project area, as is crucial winter habitat for all these species. While direct impacts to big game species are not anticipated to be significant from the Proposed Action, indirect impacts (e.g., displacement due to human activities) may be significant during project development (10 to 20 years). Indirect LOP impacts are not anticipated to be significant. Furthermore, significant cumulative direct and indirect impacts may occur to pronghorn in the Red Desert Herd due to loss of crucial winter habitat; however, under implementation of Alternatives A and B which provide further protection of crucial winter habitat, no significant direct, indirect, or cumulative impacts are anticipated. Impacts to big game under the No Action Alternative may be increased from those of the Proposed Action and Alternatives A and B due to the absence of coordinated wildlife protection efforts (see DEIS Appendix D).

Sage grouse leks and raptor nests occur in and adjacent to the area, and monitoring of these important resources would be conducted annually under the Proposed Action and Alternatives A and B to determine the activity status of leks and nests proximal to proposed development sites as specified in the Wildlife Protection Plan for this project (see DEIS Appendix D). Significant impacts to sage grouse and raptors may occur under implementation of the Proposed Action from nest abandomnent and/or reproductive failure; however, under implementation of Alternatives A and B, no significant impacts are anticipated. Impacts to raptors and sage grouse under the No Action Alternative could be increased from those of the Proposed Action and Alternatives A and B due to the absence of coordinated wildlife protection efforts (see DEIS Appendix D).

Potential impacts to wild horses under the Proposed Action and alternatives are not anticipated to be significant.

T&E species that may occur on the area include black-footed ferret, bald eagle, peregrine falcon, and Ute ladies' tresses as described in the Biological Assessment for this project (see DEIS Appendix E). The project is unlikely to adversely effect most of these species: however, adverse effects could occur to black-footed ferret (if present in the CD/WIIPA) where appropriate surveys for the species are not conducted and/or where prairie dog complexes found to contain black-footed ferret are not avoided. Issues regarding black-footed ferret will be resolved during on-going formal consultation with the U.S. Fish and Wildlife Service (USFWS). Consultation results may include a commitment to implement additional protection measures in prairie dog complexes found to contain black-footed ferret. Consultation results will be presented in the ROD for this project.

Swift fox (candidate species) and mountain plover (proposed threatened species) potentially occur on the area, and four T&E fish species -- Colorado squawfish, humpback chub, bonytail chub, and razorback sucker-occur downstream in the Green River/Colorado River drainage. No adverse effects to swift fox and the four T&E fish species or significant impacts to any state sensitive species are anticipated from project development under any alternative. However, adverse affects to mountain ployer habitat (no adverse effects or jeopardy would occur to individuals) may occur and the BLM and USFWS are currently conducting formal conferencing to develop appropriate protection strategies. Conferencing results may include modification of existing survey and protection protocol. Conferencing results will be presented in the ROD for this project.

Potential adverse impacts to cultural resources would be mitigated through data recovery and/or avoidance of significant properties. Site-specific surveys for cultural resources would be conducted prior to disturbance, and formal Wyoming State Historic Preservation Office consultation would occur where cultural resource properties may be impacted. If eligible cultural properties are found within the CD/WIIPA and they cannot be avoided, a data recovery program would be implemented. No significant impacts to cultural resources are anticipated under any alternative.

No sites of Native American religious or cultural importance are known to occur on the CD/WIIPA, and continued consultation with potentially affected Native American tribes would occur as necessary to localities of religious and/or cultural importance are identified, coordinated efforts would be made to ensure adequate site protection. No significant impacts are anticipated under any alternative.

Communities most likely to be affected by the proposed project are Wamsutter and Rock Springs in Sweetwater County and Rawlins in Carbon County. Socioeconomic impacts to these cities and counties are anticipated to be primarily beneficial, with total increased salaries estimated at \$33-\$66 million per year during the 10-20 years of project development and total government revenues estimated at approximately \$1,2 billion for the first 25 years of the project. Significant adverse effects to rural residential areas could occur under the Proposed Action if area residents are displaced. Under the No Action Alternative, the economic benefits of the action alternatives would not be realized, and significant adverse impacts may occur by foregoing revenue generation.

Most of the CD/WIIPA occurs within VRM Class III and IV areas, and the Proposed Action is consistent with VRM management objectives for these areas. However, 22,600 acres of the CD/WIIPA occurs within VRM Class II areas, and development in these areas under the Proposed Action may result in a significant impacts to visual resources are auticipated

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under Alternatives A or B since surface disturbance limitations would be applied in VRM Class II areas. Under the No Action Alternative, impacts to visual resources would continue at existing authorized levels; however, impacts could be increased from those of the Proposed Action and Alternatives A and B due to the absence of coordinated reclamation and transportation planning efforts (see DEIS Appendices A and B). Visual resource impacts would be mitigated under all development scenarios by locating and painting aboveground facilities to blend with the natural landscape. Nonetheless, the landscape character of the CD/WIIPA would change from relatively undeveloped to an active oil and gas field for the LOP and until reclassful.

Numerous standard project-specific and site-specific mitigation measures would be employed during all phases of the project to assure that potential impacts are minimized. Site-specific measures would be applied as specified in approved Applications for zeach new project feature. Surveys and/or monitoring would be conducted for cultural resources, paleontological resources, raptor nests, sage grouse less, T&E and candidate and special status species, and reclamation areas to document their status relative to specific disturbance activities.

Reclamation would be conducted as soon as possible on areas disturbed during initial construction that are not required for the LOP. Upon completion of the project, all wells would be plugged and abandoned, surface facilities would be removed, and most disturbed areas would be reclaimed and revegetated.

This EIS presents the BLM's analysis of environmental impacts under the authority of NEPA and associated rules and guidelines. The BLM will use this analysis to make a decision regarding the continued authorization of construction, drilling, completion, operation, and reclamation activities as proposed by the Operators for exploration and development of natural gas in the CD/WIIPA. The decision to allow development of CD/WIIPA lands was made in the Great Divide and Green River RMPs, in which it was determined that CD/WIIPA lands were available for leasing.

The BLM's preferred alternative for this project is the Proposed Action, with mitigation measures (as described in the EIS), that would further reduce environmental impacts. This selection is based on the analyses presented in this EIS and incorporates compliance with the Great Divide Resource Area (GDRA) (Rawlins Field Office) and Green River Resource Area (GRRA) (Rock Springs Field Office) RMPs. Mitigation measures include the following:

- applicant-committed mitigation/environmental protection measures (EIS Sections 2.1, 2.6, and especially 2.6.13);
- 2) Reclamation Plan (EIS Appendix A);
- 3) Transportation Plan (EIS Appendix B);
- 4) Hazardous Materials Summary (EIS Appendix C) (BLM 1998a);
- 5) Wildlife Protection Plan (EIS Appendix D);
- 6) Biological Assessment (EIS Appendix E); and
- additional mitigation measures identified for various resources which may be selected in the ROD for this project.

The BLM believes that the analyses presented in this EIS demonstrate that the Proposed Action with mitigation measures would meet the requirements of 43 Code of Federal Regulations (C.F.R.) 3162.1(a), which directs Operators to conduct "all operations in a manner which ensures the proper handling, measurement, disposition, and site security of leasehold production, which protects other natural resources and environmental quality, which protects life and property, and which results in maximum ultimate economic recovery of oil and gas with minimum waste and with minimum adverse effect on the ultimate recovery of other mineral resources."

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PREFACE

This Final Environmental Impact Statement (FEIS) assesses the environmental consequences of a natural gas exploration and development project in the 1,061,200-acre Continental Divide/Wamsutter II Project Area (CD/WIIPA) in eastern Sweetwater and southwestern Carbon Countes, Wyoning, on portions of Townships 15 through 23 North, Ranges 91 through 99 West. This document is not a complete reprinting of the Draft Environmental Impact Statement (DEIS) for the Continental Divide/Wamsutter II Project. It incorporates by reference most of the material presented therein and identifies changes in the DEIS required as a result of public and agency comment on the DEIS and further Bureau of Land Management (BLM) Interdisciplinary Team (IDT) environmental studies and analyses. The DEIS is required to accompany this document because only the modifications, corrections, and additions are provided herein. For ease of reference, inserts, deletions, and modifications to the DEIS are presented herein under the section numbers and headings, page number, column, paragraph, and line.

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MODIFICATIONS, CORRECTIONS, AND ADDITIONS TO THE CONTINENTAL DIVIDE/WAMSUTTER II DRAFT ENVIRONMENTAL IMPACT STATEMENT

ABBREVIATIONS AND ACRONYMS

Page xxv, column 2. After the acronym "PFC" insert a new acronym and definition as follows: "pH acidity measurement unit (negative logarithm of the hydrogen ion [H⁺] concentration)".

Page xxiv, column 2. Change "mbo" to "mmbo".

1.0 INTRODUCTION

Page 1-1, column 2, line 16. Change the words "to only" to "only to".

1.2.4 Land Use Planning

Page 1-9, column 1, paragraph 3, line 11. After the acronym "APDs," insert the acronym "RODs,".

1.2.5 Oil and Gas Leasing

Page 1-9, column 2, paragraph 4, line 9. After the word "facilities" insert "on federal mineral estate".

1.2.8 Field Development

Page 1-12, column 1, paragraph 2, line 1. After the word "and" insert the word "adequate".

Page 1-12, column 2, paragraph 2. After the paragraph insert a new paragraph that reads:

"Potential drainage situations are identified by the BLM Reservoir Management Group based on known well locations and assumed area of well influence. Actual drainage is determined by first calculating recoverable reserves (usually 6 months of production history) and by measuring or calculating reserve parameters. With this information, a radial drainage circle is then calculated. If the drainage circle intersects a federal lease line, then actual drainage is occurring."

1.4.1 Initial Involvement/Scoping

Page 1-13, column 2, paragraph 2. After the second paragraph insert a new paragraph that reads: "The DEIS was made available to the EPA and the public on April 30, 1999, and a Notice of Availability (NOA) was published in the *Federal Register*. Public meetings were held on May 24 and 25, 1999. Comments on the DEIS and BLM responses are presented in Chapter 7.0 of this FEIS."

2.0 PROPOSED ACTION AND ALTERNATIVES

Page 2-1, column 1. After the second paragraph insert the following:

"The BLM's preferred alternative for this project is the Proposed Action, with mitigation measures as described in the DEIS and FEIS that would further reduce environmental impacts. This selection is based on the analyses presented in this EIS and incorporates compliance with the GDRA and GRRA RMPs (BLM 1987a, 1988b, 1990a, 1992, 1996a, 1997a). Mitigation measures include the following:

- applicant-committed mitigation/environmental protection measures (EIS Sections 2.1, 2.6, and especially 2.6.13);
- Reclamation Plan (EIS Appendix A);
- Transportation Plan (EIS Appendix B);
- Hazardous Materials Summary (EIS Appendix C) (BLM 1998a);
- 5) Wildlife Protection Plan (EIS Appendix D);
- 6) Biological Assessment (EIS Appendix E); and
- additional mitigation measures identified for various resources which may be selected in the ROD for this project.

The BLM believes that the analyses presented in this EIS demonstrate that the Proposed Action with mitigation measures would meet the requirements of 43 C.F.R. 316.21(a), which directs Operators to conduct "all operations in a manner which ensures the proper handling, measurement, disposition, and site security of leasehold production; which protects other natural resources and environmental quality; which protects life and property; and which results in maximum ultimate economic recovery of oil and gas with minimum waste and with minimum adverse effect on the ultimate recovery of other mineral resources."

The preferred alternative is to permit up to 3,000 well locations (1,500 on BLM-managed lands) in the CD/WIIPA. Approximately 1,500 mi of new roads with adjacent pipelines, five compressor stations, one gas processing facility, 10 evaporation ponds, five disposal wells, and 50 water wells are also included under the preferred alternative. Standard procedures as currently used in gas field developments throughout Wyoming and associated applicantcommitted procedures would be employed during project development and operations. All project activities would comply with applicable federal, state, and county laws, regulations, and stipulations.

Development would occur on a yearlong basis provided there is adequate advance planning and construction. Roads would be constructed, upgraded, and maintained in accordance with the transportation planning process described in the Transportation Plan for this project (see DEIS Appendix B). Transportation planning would be implemented annually based on Operator plans and needs and public input.

Surveys for raptors and sage grouse would be conducted if activities are proposed between February 1 and July 31. Activities would be restricted within a 0.5-mi radius of active raptor nests, except ferruginous hawk nests, for which the seasonal buffer would be 1.0 mi. Surface structures requiring repeated human presence would not be constructed within 825 ft (2,000 ft for bald easles) of active raptor nests, where practical.

Surface-disturbing activities would be avoided within 0.25 mi of sage grouse leks, and construction activities would be restricted within 2.0 mi of active leks from March 1 to June 30. High-profile structures would not be constructed within 0.25 mi of a lek.

Site-specific surveys for T&E, candidate, and special status species would be conducted during on-site investigations associated with each APD and/or ROW application. Where species or their habitats are encountered, additional avoidance and/or protection measures may be applied.

The Clean Air Act would be complied with through the State of Wyoming's permitting process. It is expected that mitigating measures would be used to reduce emissions, thereby avoiding adverse impacts in Class I areas.

The BLM is currently reviewing the RFD scenario in the GDRA RMP/EIS. In addition to the RFD for oil and gas exploration and development activities, the BLM is also reviewing the reasonably foresceable activities or actions involving other land use and resource management programs, like recreation, livestock grazing, wildlife habitat, etc. There may be direct or interrelated cause-and-effect relationships (other than just those related to oil and dgas actions) among all of these activities or actions that could require amending RMP decisions.

The BLM is also initiating talks with other known regional oil and gas Operators, to determine their drilling plans (outside the CD/WIIPA) for the next couple of years. Based on the results of these discussions and the review of the RMP-identified RFD scenarios, the BLM will decide when to initiate a new EIS effort for additional project proposals. If the anticipated level of activity(ies) covered by the GDRA RMP/EIS is likely to be exceeded by any one or more of these additional project proposals within the next few years, the RFD scenario(s) for the RMP/EIS will be updated. Analysis and evaluation of the updated AFD, in conjunction with the RMP, may lead to the amendment of some RMP decisions.

The ultimate solution for updating the RFD scenarios in the GDRA RMP/EIS is to include all existing and projected oil and gas exploration and development activities in the GDRA. When an updated RFD scenario is established, analysis and evaluation would be conducted to determine whether modifications to the RMP/EIS are necessary. The RFD update could result in a requirement to amend one or more RMP decisions. However, this cannot be determined until the RFD update is prepared and evaluated.

Based on monitoring data collected during the past 10+ years, some of the analysis assumptions for RFD presented in the GDRA RMP/EIS reflect erroneously excessive surface disturbance effects related to oil and gas activities which may need to be revised. Cumulative impacts would include the impacts identified in all previous NEPA documents and the reasonably forescensible projects in the GDRA.

All proposed land and resource use and management actions must conform with RMP decisions. In the absence of conformance, actions must either be denied or modified so they do conform or the RMP decisions must be changed. Therefore, the ROD for this project may authorize no more than 1,655 wells (i.e., 415 fewer wells than proposed) within the GDRA (Rawlins Field Office). Changes to RMP decisions are made through established procedures that involve public notice, public input, and formal decision-making. These procedures are contained in the BLM 1617 Manual. Proposals analyzed in NEPA documents (EAs or EISs) are reviewed for conformance with RMP decisions. Project- or site-specific NEPA documents are tiered to RMP/EISs. The resulting decisions for proposals analyzed in project-specific NEPA documents can result in the need to change or amend RMP decisions. That is, if a project-specific EA or EIS decision does not conform with the specific RMP, part of the decision for the project would include the needed change(s) to the RMP decision(s). If the potential for amending the RMP is identified, planning process requirements are incorporated into the project-specific NEPA process. If this potential is not determined early in the NEPA process, project delays may result due to the additional planning requirements necessary for a Federal Register Notice of Intent to conduct a planning review of (or to amend) the RMP and for the required time frames for public notice and comment."

Page 2-3, Map 2.2. In the map legend change the name "Bruin" to "De Bruin".

2.2 ALTERNATIVE A - 14-ACRE MAXIMUM SURFACE DISTURBANCE PER FEDERALLY MANAGED SECTION IN SRAS

Page 2-5, column 1, paragraph 1, line 9. Change "27%" to "47%".

Page 2-5, column 1, paragraph 3, line 3. After the word "scoping" add "and review of the DEIS".

Page 2-5, column 1, paragraph 3, line 6. After the word "areas," insert "probable sage grouse nesting areas (i.e., areas within 2.0 mi of sage grouse leks),".

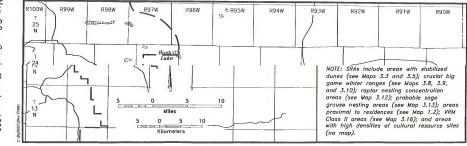
Page 2-5, column 2, paragraph 1, line 2. After the word "concentration" insert "and probable sage grouse nesting".

Page 2-7, Map 2.3. Delete Map 2.3 and replace with revised Map 2.3.

Page 2-8, column 1, paragraph 1, line 22. After the word "developed" add "by BLM".

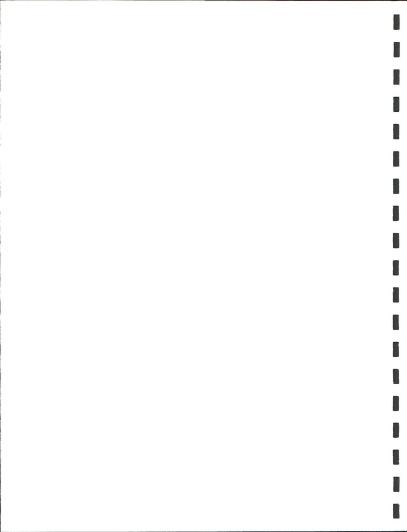
2.4 NO ACTION

Page 2-10, column 1, paragraph 2, line 13. Change the word "than" to "then".



Map 2.3 Sensi; Wyoming, 1999.

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2.6.13.9 Wildlife and Fisheries

Page 2-34, column 2, item 15, line 3. After the word "lakes" add ", areas with vegetation <4 inches in height".

Page 2-35, column 1, bullet 3. Delete the entire text of the bulleted item and replace with:

*e Surveys would be required by the BLM to clear an action for mountain plovers prior to beginning a planned activity, and surveys would be conducted during the period of April 15-June 30 for development activities planned during this period."

Page 2-35, column 1, bullet 6. After bullet 6 insert a new bulleted item as follows:

*• Where access roads and/or well locations have been constructed prior to the mountain plover nesting season and use of these areas has not been initiated for development actions, the BLM would require site investigations of these disturbed areas prior to use to determine whether mountain plover are present. In the event mountain plover nesting is complete."

Page 2-35, column 1, item 16, lines 1 and 2. Delete the phrase "Operators would consult with the USFWS and/or BLM" and replace with "Where prairie dog colonies would be disturbed, Operators would consult with the USFWS and/or the BLM and BLM would initiate informal consultation with the USFWS".

Page 2-38, Table 2.6, Air Quality, row 2, column 2, line 5. Replace the phrase "(at 1.68 deciview)" with "(at 1.69 deciview)".

Page 2-38, Table 2.6, Air Quality, row 3, column 2, lines 5 through 9. Replace the phrase "(at 1.68 deciview) and 1 day above Savage Run PSD Class II Wilderness Area background levels (at 0.67 deciview)" with "(at 1.69 deciview) and 1 day above Savage Run federal PSD Class II/Wyoming PSD Class I Wilderness Area background levels (at 0.69 deciview)".

Page 2-39, Table 2.6, Mincrals/Gas and Oil, all columns. Insert a new row that includes the following impacts and mitigation "Exceedance of RMP-identified reasonably foresceable development estimates, Significant exceedance of estimates on the GDRA could lead to impacts that are unidentified in the RMP; Same as Proposed Action; Same as Proposed Action; No impact above existing allowable levels; The BLM would not authorize actions that exceed the RMP-identified reasonably foresceable development estimates." Page 2-47, Table 2.6, Wildlife, row 3, columns 2 and 6. In column 2 (Proposed Action) delete the word "Insignificant" and insert the word "Significant". In column 6 (Mitigations) after the word "breeding" insert "(0.25-mi buffer)", after the word "nesting" insert "(2.0-mi buffer)", and delete parenthetical clause "(0.25-mi buffer)".

Page 2-54, Table 2.6, Visual Resources, row 1, columns 2, 3, and 4. In column 2 (Proposed Action), line 4, delete '; insignificant' and replace with 'and in any undeveloped area where the landscape character is changed to an active oil and gas field; generally insignificant'; in column 3 (Alternative A), line 1, delete 'Insignificant' and replace with 'Significant in undeveloped areas that are changed to active oil and gas fields; generally insignificant in VRM Class II areas'; and in column 4 (Alternative B), line 1, delete 'Insignificant' and replace with 'Significant in undeveloped areas that are changed to active oil and gas fields; generally insignificant in undeveloped areas that are changed to active oil and gas fields; generally insignificant in VRM Class II areas'.

3.0 AFFECTED ENVIRONMENT

Page 3-2, Table 3.1. Insert the following element, its status, and whether it is addressed in the EIS, "Invasive, non-native species; Potentially affected; Yes" and on line 9 after the words "Water quality" insert "(surface and ground)".

3.1.2 Air Quality

Page 3-6, column 1, paragraph 3, lines 5 and 7. On line 5 replace the phrase "both the ozone and" with the word "the" and on line 7 replace the word "these" with the word "the".

Page 3-6, column 2, paragraph 1, lines 7 and 12. On line 7 delete the phrase "and Savage Run" and change the word "Areas" to "Areas" and on line 12 after "(Map 3.1)" insert a new sentence that reads: "The Savage Run Wilderness Area is a federal PSD Class II and State of Wyoming PSD Class I area."

Page 3-7, Map 3.1, legend, item 5. Replace the phrase "SAVAGE RUN PSD CLASS II WILDERNESS AREA" with "SAVAGE RUN FEDERAL PSD CLASS II/WYOMING PSD CLASS I WILDERNESS AREA".

Page 3-8, column 1, paragraph 1. After the paragraph insert a new paragraph that reads:

"There are no applicable Hazardous Air Pollutant, visibility impairment, or atmospheric deposition (acid rain) standards. The visibility impairment regulations for both "reasonably attributable" and "regional haze" impacts apply only within mandatory federal PSD Class I areas."

Page 3-8, column 1, paragraph 2, line 16. Replace the acronym "Ph" with "pH".

Page 3-9, Table 3.6, lines 6, 7, and 8. Replace all ozone information with "Ozone', 8-hr, 1176, 160, n/a, n/a".

3.1.4.1 Mineral Resources

Page 3-11, column 1, paragraph 3, lines 7 and 10. Change the acronym "mbo" to "mmbo".

Page 3-11, column 2, paragraph 2, line 2. Change the acronym "mbo" to "mmbo".

Page 3-13, Table 3.7, column 7, header and footnote 3. Change the acronym "mbo" to "mmbo".

3.1.4.2 Geologic Hazards

Page 3-17, column 1, paragraph 4, lines 6 and 7. Delete the name "North Granite Mountain/Green Mountain segment" and replace with "South Granite Mountain fault system".

3.2.2 Wildlife and Fisheries

Page 3-37, column 1, paragraph 3, line 9. Before the number "29.3%" insert the word "Approximately" and delete "[words?]".

Page 3-39, Table 3.14, Sage Grouse, row 1, column 2, and row 2, columns 2 and 3. In row 1, column 2, change "7,000" to "7,200"; in row 2, column 2, change "340,200" to "345,500"; and in row 2, column 3, change "32.1" to "32.6".

3.2.2.1 Big Game

Page 3-40, column 2, paragraph 4, lines 15 and 16. On line 15 replace the words "unsuitable as" with the word "unoccupied" and on line 16 replace "Map 3.8" with "Map 3.9".

Page 3-42, column 1, paragraph 1, lines 15 and 17. On line 15 before the word "mule" insert "adult", and on line 17 insert a new sentence that reads: "However, woven wire fences, which are common in the CD/WIIPA, can limit the movements of and be life-threatening to fawns, especially in pastures without reliable summer water sources and during early fall storms when fawns are too small to jump fences."

Page 3-42, column 2, paragraph 1, lines 2 and 5. On line 2 before the acronym "WGFD" insert the year "1997", and on line 5 after "(Table 3.13)" insert a new clause that reads "; however, the expected population objective for the herd unit is 250-350 animals".

Page 3-42, column 2, paragraph 2, lines 2, 4, 6, and 10. On line 2 delete "unsuitable as", on line 4 delete "not suitable", on line 6 delete "devoid of elk", on line 10 delete "unsuitable as", and in all four locations insert the word "unoccupied".

3.2.2.4 Upland Game Birds

Page 3-47, column 1, paragraph 4, lines 1, 3, and 10-13. On line 1 replace the number "Sixty-five" with "Sixty-six", on line 3 replace "Fifty-one (78.5%)" with "Fifty-two (78.8%)", and delete the sentence on lines 10-13 and replace it with "WGFD data indicate that at least 32 of the 66 known leks on the area (48%) have been active for at least one year during the period of 1995 through 1998."

Page 3-47, column 2, paragraph 2, lines 1, 5, 7, 10, and 14. On line 1 replace the number "Fifty-six" with "Fifty-seven", on line 5 replace "7,000" with "7,200", on line 7 replace "54%" with "56%", on line 10 replace "32%" with "30%", an on line 14 replace "340,200" and "32.1%" with "345,500" and "32.6%", respectively.

Page 3-48, Map 3.13. Delete Map 3.13 and replace with the following revised map.

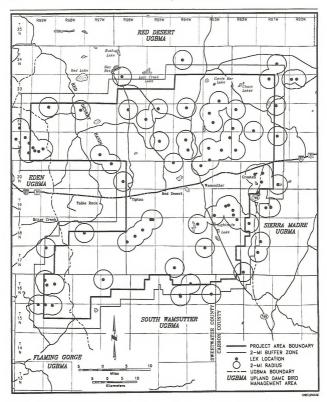
Page 3-49, column 1, paragraph 2, line 6. After the bird "killdeer," insert "white-faced ibis,".

4.0 ENVIRONMENTAL CONSEQUENCES, MITIGATION, AND MONITORING

4.1.1 Air Quality

Page 4-8, column 2, paragraph 2, lines 4 and 6. On line 4 after the word "a" insert the word "revised" and on line 6 replace the reference "(BLM 1999b)" with "(BLM 1999d)".

Final Continental Divide/Warnsutter II EIS



Map 3.13 Sage Grouse Lek Sites and Upland Game Bird Management Areas, Continental Divide/Wamsutter II Natural Gas Project, Sweetwater and Carbon Counties, Wyoming, 1999.

4.1.1.1 Proposed Action

Page 4-9, column 2, paragraph 4, line 3. After the word "gas" insert the word "typically".

Page 4-10, column 1, paragraph 2, line 4. Replace the phrase "would be nearly 124 µg/m³ (24-hr TSP), 55 µg/m³" with "would be just below 150 µg/m³ (24-hr TSP), 67 µg/m³".

Page 4-11, column 1, paragraph 2, lines 4, 6, 7, 8, and 12. On line 4 replace the phrase "(nearly 34 μ g/m³)" with "(nearly 35 μ g/m³)"; on lines 6 and 7 replace the phrase "would be 151 μ g/m³, which is below the restrictive ozone WAAQS of 160 μ g/m³ with "would be 152 μ g/m³, which is below the 8-hour ozone WAAQS and NAAQS of 160 μ g/m³; on lines 7 and 8 delete the sentence "The ozone NAAQS is less stringent."; and on line 12 after the word "Wyoming" insert the following: ", and it is unlikely the maximum 1-hour predicted ozone impact would occur for a consecutive 8-hour period."

Page 4-11, column 2, paragraph 2, line 6. Replace " 0.4×10^4 and 0.4×10^4 individually" with " 0.5×10^4 and 0.4×10^4 individually".

Page 4-12, Table 4.3, column 2, lines 2 through 7. Replace the entire individual well emission, modeled 8-hr concentration items for all pollutants as follows: "279.6, 260.9, 14.9, 356.9, 1,382.4, n/a".

Page 4-12, Table 4.3, columns 2 and 3, last line. Replace the entire gas plant/compression emissions, modeled 8-hr concentration and range of state AACL for formaldehyde as follows: "70.8 4.5 _{FL07} - 71 _{NV01}".

Page 4-13, column 1, paragraph 6, line 4. Replace the word "project-wide" with "air pollutant emission source".

4.1.1.5 Mitigation and Monitoring

Page 4-14, column 2, paragraph 1, line 3. After the phrase "emission rate of 1-5 g/hp-hr." insert a new sentence that reads: "The cost effectiveness of this control technology applied to a 2,500- to 4,000-hp rich-burn engine ranges from \$315 to \$395 per ton of NO, removed."

Page 4-14, column 2, bullet 1 (Lean Combustion), line 7. After the phrase "emission rate of 1.5-4.0 g/hp-hr." insert a new sentence that reads: "The cost effectiveness of this control technology applied to a 2,500- to 4,000-hp rich-burn engine ranges from \$480 to \$500 per ton of NO, removed." Page 4-14, column 2, bullet 2 (Selective Catalytic Reduction), line 7. After the phrase "of 1.0-2.5 g/hp-hr." insert a new sentence that reads: "The cost effectiveness of this control technology applied to a 2,500- to 4,000-hp rich-burn engine ranges from \$700 to \$890 per ton of NO_x removed."

Page 4-14, column 2, bullet 3 (Electric Compression), line 10. After the phrase "coal-fired power plants)." insert a new sentence that reads: "Using current industrial electrical rates and assuming 100% control due to elimination of the 2.0 g/hp-hr NO₄ emissions at the compressor site, the cost effectiveness of electric compression is roughly \$26,000 per ton of compression NO₄ removed."

Page 4-14, column 2, paragraph 5. After the fourth paragraph insert a new bullet item that reads:

Fuel Cell Technology. It is not currently feasible to connect enough fuel cells together to generate the compression horsepower necessary for the project. Approximately 75 fuel cells (at a capital cost of nearly \$30 million) would be required to provide 20,000 hp of compression. In addition, current technology allows only two fuel cells to be connected in a series, and as of January 1998, there were only 160 of these units operating worldwide. The cost effectiveness of this control technology ranges from \$20,000 to \$40,000 per ton of NO₄ removed."

Page 4-16, column 1, paragraph 3, lines 1, 2, and 15. On lines 1 and 2 replace the sentence "The BLM, in cooperation with WDEQ-AQD, could continue to track total NO_x emissions." with "In addition to sources located within the Rock Springs Field Office Area, the BLM, in cooperation with WDEQ-AQD, could track total NO_x emissions from additional CD/WIIPA sources located outside the area."; and after the paragraph insert a new paragraph that reads:

*Proposed CD/WIIPA NQ, emitting sources located within the Rock Springs Field Office Area are subject to the existing agreement. However, most of the proposed CD/WIIPA sources would be located outside the area. Therefore, either a mutually acceptable revision or a separate agreement would be required to track NO₄ emission sources not subject to the current agreement."

4.1.1.6 Cumulative Impacts

Page 4-16, column 2, paragraph 1, lines 1 and 3. On line 1 after the word "a" insert the word "revised" and on line 3 replace the date "1999b" with "1999d".

Page 4-17, Table 4.4. Replace the entire table with the following revised table (see following page):

Page 4-18, Table 4.5. Replace the entire table with the following revised table (see following page):

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Table 4.4	Predicted Direct Project NO2 PSD Class I and II Sensitive Receptor Impacts, Continental
	Divide/Wamsutter II Natural Gas Project, Sweetwater and Carbon Counties, Wyoming, 1999.1

Location	Direct Project Sources	PSD Increment
PSD Class I Sensitive Areas		
Bridger Wilderness	0.001	2.5
Fitzpatrick Wilderness	<0.001	2.5
Mount Zirkel Wilderness	0.01	2.5
Rawah Wilderness	0.005	2.5
PSD Class II Sensitive Areas		
Adjacent to CD/WIIPA	21.2	25
Adjacent to South Baggs Project	1.8	25
Dinosaur National Monument	0.009	25
Popo Agie Wilderness	0.001	25
Wind River Roadless Area	<0.001	25
Federal PSD Class II/Wyoming PSD Class I Sensitive Area		
Savage Run Wilderness Area	0.008	25/2.5

⁴ Measured as μg/m³ (annual average).

Predicted Change in Acid Neutralizing Capacity in PSD Class I and II Sensitive Lakes (Percent Change), Continental Divide/Wamsutter II Natural Gas Project, Sweetwater and Carbon Counties, Wyoming, 1999.

Location	Minimum ANC (µeq/l)	Project Sources	Cumulative Sources	Thresholds
PSD Class I Sensitive Areas				
Bridger Wilderness				
Deep Lake (2.7-yesr turnover)	49.0	0.1	1.4	10
Mount Zirkel Wilderness				
Pothole A-8	14.2	0.3	1.5	7.01
Seven Lakes	30.0	0.2	1.0	10
Upper Slide Lake	22.6	0.2	1.0	4.4
Rawah Wilderness				
Island Lake	64.6	<0.1	0.4	10
No. 4 Lake	43.5	0.1	0.6	10
PSD Class II Sensitive Areas				
Medicine Bow National Forest				
West Glacier Lake	29.7	0.4	4.6	10
Popo Agie Wilderness				
Lower Saddlebag Lake	58.3	<0.1	0.5	10

¹ For lakes with minimum existing ANC values <25 μeq/l, the threshold of concern is less than a 1 μeq/l reduction below the minimum existing ANC value (e.g., for Pothole A-8 in the PSD Class I Mount Zirkel Wilderness Area, 0.070 x 14.2 μeq/l equals 1 μeq/l).</p>

Table 4.5

Page 4-19, column 1, paragraph 4, line 10. Replace "(1.68 deciview)" with "(1.69 deciview)".

Page 4-19, column 2, paragraph 1, lines 1 and 2. Replace the phrase "the PSD Class II Savage Run Wilderness Area (0.67 deciview)" with "the federal PSD Class II/Wyoming PSD Class I Savage Run Wilderness Area (0.69 deciview)".

Page 4-19, column 2, bullet 1, lines 4 through 6. Replace the phrase "Recently, NO_x emissions from existing sources in southwestern Wyoming have been decreasing." with "A reduction of NO_x emissions from existing sources in southwestern Wyoming is anticipated, primarily due to installation of control devices on the Naughton coal-fired electrical generation facility."

Page 4-20, Table 4.6, lines 9 and 10. On line 9 delete all existing "Savage Run Wilderness" items, and after line 10 insert the following: "Federal PSD Class II/Wyoming PSD Class I Sensitive Receptor, Savage Run Wilderness Area, 0, 0, 0".

Page 4-21, column 2, paragraph 1, lines 6 through 8. Replace the sentence "A similar conclusion has been reached by the Southwest Wyoming Technical Air Forum." with "The Southwest Wyoming Technical Air Forum is developing a secondary organic aerosol model, but it is not currently available for use."

Page 4-21, column 2, paragraph 3, line 4. Replace the word "project-wide" with "air pollutant emission source".

4.1.2.2 Alternative A

Page 4-24, column 1, paragraph 1, line 5. Change "27%" to "47%".

4.1.3 Mineral Resources

Page 4-26, column 1, paragraph 2. Delete the entire paragraph and insert the following revised paragraph:

"The following analysis shows that the Proposed Action and development alternatives are generally compatible with these management objectives; however, significant impacts would occur under the Proposed Action due to the extraction of oil and gas reserves and their subsequent unavailability for future generations. Significant impacts also could occur if development within the RFO area exceeds the estimates provided in the GDRA RMP (see Section 1.2.4). Furthermore, under the No Action Alternative, if development is denied, significant adverse impacts could occur due to the violation of leaseholders' rights."

4.1.3.1 Proposed Action

Page 4-26, column 1, paragraph 3, line 5. Change the acronym "mbo" to "mmbo".

Page 4-26, column 1, paragraph 3. After the paragraph insert a new paragraph that reads:

"Since the proposed development in the RFO area exceeds the reasonably foresceable development estimates presented in the GDRA RMP, significant impacts (i.e., impacts not accounted for during GDRA planning) could occur. However, the proposed development is scheduled to occur over the next 20 years, and the BLM will be initiating a RFO area land use plan review and possible amendment prior to reaching the reasonably foresceable disturbance estimates made in the RMP. Furthermore, the BLM will not authorize development actions (APDs, ROWs) that exceed current reasonably foresceable disturbance estimates prior to the plan review and possible amendment."

4.1.3.5 Mitigation and Monitoring

Page 4-27, column 1, paragraph 4. Prior to paragraph 4 insert a new paragraph that reads:

"The BLM would not authorize development beyond the reasonably foreseeable development estimates specified in the GDRA RMP (see Section 1.2.4). The BLM will initiate a plan review and possible amendment for the RFO area prior to reaching the reasonably foreseeable development estimates contained in the GDRA RMP."

4.1.7.5 Mitigation and Monitoring

Page 4-38, column 1, paragraph 2, bullet 1. After the word "fluids" insert "(i.e., moderately to highly permeable soils)".

Page 4-38, column 2, paragraph 4. After the paragraph insert a new paragraph that reads:

The BLM may require the establishment of an adaptive environmental management program for surface water resources. The plan would involve BLM, Operators, landowners, permittees, and other area users and entities with an interest in participation. The plan would call for the establishment and review of monitoring procedures and results to determine their efficacy, and in the event significant impacts are found the plan may call for the modification of existing surface water mitigations.^{*}

4.2.3 Wildlife and Fisheries

Page 4-47, column 2, paragraph 2, line 6. After the word "failure" insert "and/or loss of sage grouse productivity".

4.2.3.2 Birds

Page 4-59, column 1, paragraph 4, lines 3, 5, and 14. On line 3 replace the number "340,200" with "345,500", on line 5 replace "(Table 4.12)" with "(see Table 3.14)", and on line 14 replace "7,000" with "7,200".

Page 4-59, column 2, paragraph 1, lines 1-6. Delete the entire sentence.

Page 4-59, column 2, paragraph 2, lines 5-11. Delete the entire sentence and replace with "Furthermore, with the implementation of the Wildlife Protection Plan for this project and associated monitoring and potential implementation of augmented protection measures (see Appendix D), most impacts to sage grouse associated with the Proposed Action are expected to be less than significant. However, regional sage grouse populations have apparently been declining over the last several years, and these declines have been attributed to a number of factors including climate, predation, livestock grazing, and mineral development. Therefore, significant impacts to sage grouse productivity could occur under implementation of the Proposed Action."

Page 4-59, column 2, paragraph 4, lines 1, 4, 8, and 9. On line 1 delete "to sage grouse and other" and replace with "most"; on line 4 after the word "raptors" insert "and sage grouse"; on line 8 after the word "areas" insert "and 2.0-mi sage grouse nesting buffers" and after "Maps 2.3" insert ", 3.13"; and on line 9 after the word "raptors" insert ", sage grouse,".

Page 4-60, Table 4.12, column 1. Delete "571,000", "31,000", 1,466,500", and "91,200" and replace with "576,300", "31,100", "1,471,800", and "91,300", respectively.

Page 4-61, column 1, paragraph 1, lines 1, 4, 7, and 9. On line 1 delete "to sage grouse and other" and replace with "most"; on line 4 after the word "raptors" insert "and sage grouse"; on line 7 after the word "raptors" insert "and sage grouse"; and on line 9 after the word "raptors" insert ", sage grouse,".

Page 4-62, column 1, paragraph 2, line 1. Before the word "Unless" insert a new sentence that reads: "While no power lines are currently proposed, if they do become necessary, the BLM would prohibit Operators from building power lines within 0.6 mi of sage grouse leks, pursuant to the Wildlife Protection Plan (see Appendix D).* Page 4-62, column 1, paragraph 2. After paragraph 2 insert a new paragraph that reads: "The BLM may require that permanent caps placed on abandoned wells be less than 1.0 m tall. This measure would limit the suitability of these caps as hunting perches for raptors and corvids (e.g., crows and ravens)."

Page 4-62, column 2, paragraph 3, lines 9, 11, 14, and 16. On line 9 after the word "raptor" insert "and sage grouse"; on line 11 after the word "raptor" insert "or sage grouse"; on line 14 after the word "nests" insert "and sage grouse leks and probable nesting areas"; and on line 16 after the word "raptor" insert "and sage grouse".

Page 4-64, Map 4.7. Delete Map 4.7 and replace with the following revised map.

4.2.5.5 Mitigation and Monitoring

Page 4-71, column 2, bullet 3, line 2. After the word "lakes" insert ", areas with vegetation <4 inches in height".

Page 4-72, column 1, dash 1. Delete the entire text of the dash and replace with:

"- Surveys would be required by the BLM to clear an action for mountain plovers prior to beginning a planned activity, and surveys would be conducted during the period of April 15-June 30 for development activities planned during this period."

Page 4-72, column 1, dash 4. After dash 4 insert a new dashed item as follows:

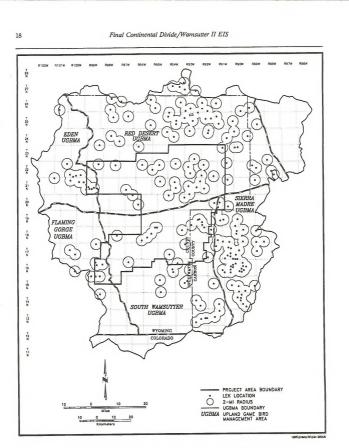
"- Where access roads and/or well locations have been constructed prior to the mountain plover nesting season and use of these areas has not been initiated for development actions, the BLM would require site investigations of these disturbed areas prior to use to determine whether mountain plover are present. In the event mountain plover nesting is occurring, the BLM may require delays in development activities until nesting is complete."

Page 4-72, column 1, bullet 1, lines 1 and 2. Delete the phrase "Operators would consult with the USFWS and/or BLM" and replace with "Where prairie dog colonies would be disturbed, Operators would consult with the USFWS and/or the BLM and BLM would initiate informal consultation with the USFWS". Page 4-72, column 2, paragraph 3. After paragraph 3 insert a new paragraph that reads:

"To further protect mountain plover, the BLM may require presence/absence surveys consistent with current USFWS protocol. Survey methods may be as follows:

- conduct surveys during early courtship and territory establishment (i.e., May 1 through June 15);
- conduct surveys from sunrise to 10:00 a.m. and/or from 5:30 p.m. to sunset;
- preferably conduct surveys from four-wheel drive vehicles or, where access is a
 problem and/or no visual observations are made from vehicles, use ATVs.

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Map 4.7 Regional Sage Grouse Leks, Continental Divide/Wamsutter II Natural Gas Project, Sweetwater and Carbon Counties, Wyoming, 1999.

- remain in or close to the vehicle when scanning with binoculars;
- visual observations would be made of all areas within 200 m of proposed disturbance sites;
- sites would be surveyed three times during the survey window with each survey separated by at least 14 days;
- do not conduct surveys in poor weather;
- focus surveys on identifying displaying or calling males;
- if breeding birds are observed, conduct additional surveys immediately prior to construction to search for active nest sites;
- if an active nest is located, establish a 200-m buffer zone around nest to prevent direct and indirect nest disturbance;
- project initiation would occur as near to completion of the survey as possible; and
- if an active nest is found in the survey area, planned activities would be delayed 37 days, or 1 week post-hatching, or if a brood of flightless chicks is observed, activities would be delayed at least 7 days.

Furthermore, prior to authorizing surface disturbance within 200 m of known mountain plover concentration areas (i.e., areas where broods and/or adults have been observed in the current year or documented in at least 2 of the last 3 years), regardless of the season, the BLM may initiate informal conferencing with the USFWS."

4.4.1 Proposed Action

Page 4-78, Table 4.15. Replace Table 4.15 with the following revised table (see following page).

Page 4-79, column 1, paragraph 2, lines 7, 8, 9, and 11. On line 7 replace the number "411" with "53"; on line 8 replace the number "\$14" with "\$6.6" and after "(Table 4.15)." insert a new sentence that reads "Some additional revenues would also be generated from the production of approximately 80 million bbl of natural gas liquids."; on line 9 replace the number "\$865" with "\$3366"; and on line 11 replace the number "\$1.8" with "\$0.8".

4.5.1.2 Recreation

Page 4-82, column 2, paragraph 3, line 8. After the word "area" insert "(a potentially significant impact, see Section 4.6),".

4.6 AESTHETICS AND VISUAL RESOURCES

Page 4-90, column 1, paragraph 2, lines 4 and 5. On line 4 after the word "areas" insert "under the Proposed Action" and on line 5 after the word "pattern" insert "and under any alternative where the landscape character (aesthetics) is changed from undeveloped to an active oil and gas field".

Year	Gas Production (mmcfx1,000) ¹	Gas Price (\$/mcf) ²	Condensate Production (mbblx1,000) ³	Condensate Price (\$/bbl) ²	State and Local Taxes (\$x1,000,000) ⁴	Federal Royalty (\$x1,000,000) ⁴
1999	50	1.96	1	20.27	16	7
2000	150	1.97	3	20.37	48	22
2001	250	1.98	5	20.47	80	37
2002	300	1.99	6	20.58	96	45
2003	350	2.00	7	20.69	113	53
2004	300	2.01	6	20.78	97	45
2005	250	2.02	5	20.89	81	38
2006	200	2.03	4	20.99	65	31
2007	150	2.04	3	21.10	49	23
2008	100	2.05	2	21.20	33	15
2009	90	2.06	2	21.31	30	14
2010	80	2.07	2	21.41	28	13
2011	70	2.08	1	21.52	22	10
2012	60	2.09	1	21.63	20	9
2013	50	2.10	1	21.74	17	8
2014	40	2.11	1	21.84	14	7
2015	30	2.12	1	21.95	11	5
2016	20	2.13	0	22.06	6	3
2017	15	2.14	0	22.17	4	2
2018	10	2.15	1	22.28	6	3
2019	5	2.17	0	22.40	1	1
2020	5	2.18	0	22.51	1	1
2021	5	2.19	0	22.62	1	1
2022	4	2.20	0	22.73	1	1
2023	3	2.21	0	22.85	1	0
2024	2	2.22	1	22.96	4	2
Ave.		2.09		21.59	-	-
Total	2,589		53		845	396

Table 4.15 Estimated Gas and Condensate Production, State and Local Severance Taxes, and Federal Royalities for the First 25 Years of Operation, Continental Divide/Wamsutter II Natural Gas Project, Sweetwater and Carbon Counties, Wyoming, 1999.

1 mmcf = million cubic feet.

² Gas and condensate prices are based on the average 1997 prices escalated at a 0.5% annual rate through 2024; \$/mcf = price per thousand cubic feet; \$/bbl = price per barrel.

³ mbbl = thousand barrels.

4 State and local taxes are assumed to be a 6.0015% and 7.34%, respectively, on all revenue.

⁵ Based on 1,500 wells on federal lands with a 12.5% royalty interest.

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4.6.1 Proposed Action

Page 4-90, column 1, paragraph 3, line 12. Add a new sentence that reads "Furthermore, a significant impact could occur in any area where the landscape character is changed from undeveloped to an active oil and gas field."

4.6.2 Alternative A

Page 4-90, column 2, paragraph 3, line 11. After "Alternative A" insert "; however, where currently undeveloped areas are utilized for oil and gas operations, a significant impact to landscape character could occur."

4.6.3 Alternative B

Page 4-90, column 2, paragraph 4, line 11. After "Alternative B" insert "; however, where currently undeveloped areas are utilized for oil and gas operations, a significant impact to landscape character could occur."

4.6.6 Cumulative Impacts

Page 4-92, column 2, paragraph 3, line 7. Add a new sentence that reads "Furthermore, a significant impact could occur in any area where the landscape character is changed from undeveloped to an active oil and gas field."

5.0 CONSULTATION AND PREPARERS

Page 5-8, Table 5.1, column 3, line 9 and column 2, line 10. In the third column, line 9, before the word "State" insert "Past", and in the second column, line 10, replace the name "Larsen" with "Hallberg".

6.0 REFERENCES

Page 6-1, column 1. Above the reference "Allen, J.M. 1980." insert the reference:

"Air Resource Specialists, Inc. n.d. Standard operating procedures and technical instructions for transmissometer systems. Fort Collins, Colorado." Page 6-4, column 2. Above the reference "Bureau of Land Management. 1999a." insert the reference:

"Bureau of Land Management. 1998e. Final air quality impact assessment protocol -Continental Divide/Greater Wamsutter II and South Baggs Projects. U.S. Department of the Interior, Bureau of Land Management, Rawlins District Office. Rawlins, Wyoming. September 28, 1998."

Page 6-4, column 2. After the reference "Bureau of Land Management. 1999b." insert the references:

- "Bureau of Land Management. 1999c. Pinedale Anticline Oil and Gas Exploration and Development Project: Air quality assessment protocol. U.S. Department of Interior, Bureau of Land Management, Pinedale Field Office. Pinedale, Wyoming. June 1999.
- Bureau of Land Management. 1999d. Revised air quality impact assessment technical support document, Continental Divide/Wamsutter II and South Baggs Projects. U.S. Department of the Interior, Bureau of Land Management, Rawlins and Rock Springs Field Offices. Rawlins and Rock Springs, Wyoming. September 1999.*

Page 6-6, column 1. Above the reference "Dorn, R.D. 1992." insert the reference

"De Bruin, R.H., and C.S. Boyd. 1991. Oil and Gas Map of Wyoming. Geological Survey of Wyoming. Map."

Page 6-6, column 1. After the reference "Environmental Studies Board. 1974." insert the reference:

"Environmental Protection Agency. 1979. Protecting visibility - An EPA report to Congress. EPA-450/5-79-008. Office of Air Quality Planning and Standards. Research Triangle Park, North Carolina. October 1979."

Page 6-6, column 1. After the reference "Environmental Protection Agency. 1997b." insert the references:

- "Environmental Protection Agency. 1998. Interagency Workgroup on Air Quality Modeling (IWAQM) phase 2 summary report and recommendations for modeling long range transport impacts. EPA-454/R-98-019. Office of Air Quality Planning and Standards, Research Triangle Park, NC. December 1998.
- Environmental Protection Agency. 1999. Visibility monitoring guidance. EPA-454/R-99-003. Office of Air Quality Planning and Standards. Research Triangle Park, North Carolina. June 1999."

Page 6-8, column 2. After the reference "Kuck et al. 1985." insert the references:

"Landres, P., and S. Meyer. 1998. A national wilderness preservation system database: Key attributes and trends, 1964-1998. General Technical Report INT-GTR-18. http://www.wilderness.net/nwps/db/ U.S. Forest Service, Rocky Mountain Research Station. Odgen, Utah." Page 6-8, column 2. Above the reference for "Lyon, L.J., and A.L. Ward" insert the following reference:

"Lyon, A.G., and S.H. Anderson. 1998. Effect of Gas Development on Sage Grouse Populations, 1998 Field Season Findings. Wyoming Cooperative Fish and Wildlife Research Unit, University of Wyoming. Laramie, Wyoming."

Page 6-9, column 2. After the reference to "Murray et al. 1995." insert the references:

- "National Acid Precipitation Assessment Program. 1991. Acid deposition: State of science and technology: report 24 - visibility: existing and historical conditions - causes and effects. U.S. National Acid Precipitation Assessment Program, Office of the Director, Washington, D.C.
- National Park Service, 1999. Federal land managers' air quality related values workgroup (FLAG): Draft phase I Report. Air Quality Division. Denver, Colorado. May 4, 1999."

Page 6-9, column 2. After the reference "Olendorff et al. 1981." insert the reference:

"Olson, D. 1998. Memorandum to J. Scire, Earth Tech, Inc. regarding the release of SWWYTAF MMS data to the Bureau of Land Management dated December 15, 1998. State of Wyoming, Department of Environmental Quality, Air Quality Division. Cheyenne, Wyoming."

Page 6-12, column 2. After the reference "University of Wyoming. 1996." insert the reference:

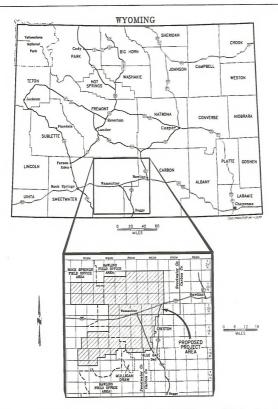
"U.S. Department of Agricultural - Natural Resource Conservation Service. 1998. PRISM data set (available on compact disk or at http://www.ftw.nrcs.usda.gov/prism/prism.html). Natural Resources Conservation Service, National Water and Climate Center, Portland, Oregon."

Page 6-13, column 2. After the reference "Wasser and Shoemaker. 1982." insert the reference:

"Watson, J.G., et al. 1996. Mt. Zirkel Wilderness Area: Reasonable Attribution Study of Visibility Impairment. Prepared for the Technical Steering Committee, c/o Colorado Department of Public Health and Environment, Air Pollution Control Division, Denver, Colorado, by the Desert Research Institute, Reno, Nevada. July 1, 1996."

APPENDIX B: TRANSPORTATION PLAN

Page B-2, Map B-1.1. Delete Map B-1.1 and replace with the following revised map.



Map B-1.1 General Location Map for the Continental Divide/Wamsutter II Project, Sweetwater and Carbon Counties, 1999.

APPENDIX D: WILDLIFE PROTECTION PLAN

D-2.0 IMPLEMENTATION PROTOCOL

Page D-4, Table D-2.1, column 2, lines 3 and 4. On line 3 change the date "November 15" to "early November", and on line 4 change the date "early February" to "early January".

Page D-6, Table D-2.3, column 1, lines 19 and 20 and column 2, line 15. In column 1, lines 19 and 20, replace "(within 0.25 mi of proposed well locations or 300 ft of proposed roads)" with "(within 200 m of proposed disturbance)", and in column 2, line 15 change the dates "March 15 and August 15" to "April 15 and June 30".

D-2.2.2 Threatened, Endangered, Candidate, and Other Species of Concern

Page D-11, Table D-2.4, line 6. Insert a new species as follows "White-faced ibis; *Plegadis chihi*; SC; X; X; --; No; FT(P/R)".

Page D-13, Table D-2.5, line 2. Delete the row starting with "white-faced ibis".

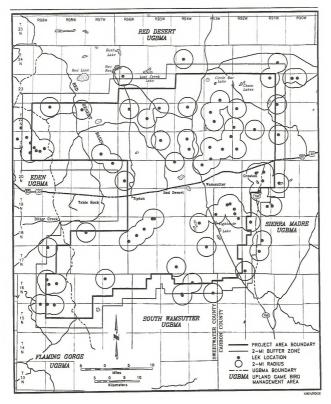
D-2.2.2.3 Mountain Plover

Page D-17, column 1, paragraph 1, lines 2, 9, 10, 18, 19, 21, 22, 25, 26, and 29. On line 2 replace the number "6" with "4"; on line 9 replace "March 15" with "April 15"; on line 10 replace "August 15" with "June 30"; on line 18 replace "March" with "April"; on line 19 replace "July 15" with "June 30"; on line 21 replace "March" with "April"; on line 22 replace "March 31" with "April 30", "July 1" with "June 15", and "August 15" with "June 30"; on line 25 replace "April"; with "May", "30" with "15", and "two" with "three"; on line 26 replace "two" with "Hare"; and on line 29 add a new sentence that reads: "Where access roads and/or well locations have been constructed prior to the mountain plover nesting season and use of these areas has not been initiated for development actions, site investigations of these disturbed areas would be conducted prior to use to determine whether mountain plover are present."

D-2.2.3 Sage Grouse

Page D-18, Map D-2.3. Delete Map D-2.3 and replace with the following revised map.

Final Continental Divide/Wamsutter II EIS



Map D-2.3 Known Sage Grouse Lek Locations, Continental Divide/Wamsutter II Natural Gas Project Area, Sweetwater and Carbon Counties, Wyoming, 1999.

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D-2.3.2.3 Mountain Plover

Page D-22, column 1, paragraph 2, line 2. After the word "lakes" insert ", areas with vegetation <4 inches in height".

APPENDIX E: BIOLOGICAL ASSESSMENT

E-1.0 INTRODUCTION

Page E-1, column 2, paragraph 2, lines 2 and 14. On line 2 delete the word "the" at its first occurrence and on line 14 insert a new sentence that reads: "There currently is no designated critical habitat for any threatened or endangered species in the CD/WIIPA."

Page E-2, Table E-1.1, line 13. Change the federal status for mountain plover from "C" to "Proposed as T".

E-2.0 PROJECT DESCRIPTION

Page E-5, column 1, paragraph 3, line 6. After the word "areas," insert "probable sage grouse nesting areas (i.e., areas within 2.0 mi of sage grouse leks),".

E-2.2 ALTERNATIVE A - 14-ACRE MAXIMUM SURFACE DISTURBANCE PER FEDERALLY MANAGED SECTION IN SRAS

Page E-6, paragraph 2, line 10. Replace the percentage "27%" with "47%".

E-4.1 APPLICANT-COMMITTED MEASURES

Page E-12, column 2, item 17, line 2. After the word "lakes" insert ", areas with vegetation <4 inches in height".

Page E-13, column 1, bullet 3. Delete the entire text of the bulleted item and replace with:

• Surveys would be required by the BLM to clear an action for mountain plovers prior to beginning a planned activity, and surveys would be conducted during the period of April 15-June 30 for development activities planned during this period.

Page E-13, column 2, line 7. Insert a new bulleted item as follows:

• Where access roads and/or well locations have been constructed prior to the mountain plover nesting season and use of these areas has not been initiated for development actions, the BLM would require site investigations of these disturbed areas prior to use to determine whether mountain plover are present. In the event mountain plover nesting is complete.^{}

Page E-13, column 2, item 19, lines 1 and 2. Delete the phrase "Operators would consult with the USFWS and/or BLM" and replace with "Where prairie dog colonies would be disturbed, Operators would consult with the USFWS and/or the BLM and BLM would initiate informal consultation with the USFWS".

E-5.1.1.2 Potential Effects

Page E-15, column 2, paragraph 3, lines 2 through 4. On lines 2 and 3 delete the phrase "there would be no effect to" and insert "the proposed project is unlikely to adversely affect", and on lines 3 and 4 delete the phrase "due to the Proposed Action or alternatives".

E-5.2.6.3 Mitigation Measures

Page E-25, column 2, lines 4, 5, and 18. On line 4 replace "March 15" with "April 15", on line 5 replace "August 15" with "June 30", and on line 18 replace "August 15" with "July 1" and "March 15" with "April 15".

7.1 PUBLIC MEETINGS

Two public meetings designed to allow area residents and other attendees to verbally comment on the proposed project were held-one in Rock Springs on May 24, 1999, and one in Rawlins on May 25, 1999. The attendance records and proceedings for the public meetings are presented below. Table 7.1 presents a list of commentors at both meetings.

7.1.1 Rock Springs Meeting, May 24, 1999

7.1.1.1 Attendance Record

The attendance record for the Rock Springs meeting is presented in Table 7.2.

Table 7.1 List of Public Meeting Commentors, Continental Divide/Wamsutter II Natural Gas Project, Sweetwater and Carbon Counties, Wyoming.

Meeting Attended	Comment Number	Commentor
Rock Springs Meeting (May 24, 1999)	1	Donald Hartley, Southwest Wyoming Industrial Association
	2	G.W. Bragh
	3	David Bunning, John Bunning Transfer Company, Inc.
	4	Tim Kaumo, SW Wyoming Mineral Association
	5	William Johnson, Union Pacific Resources
	6	Ellis L. Wheeler, Searle Bros.
	7	Dallas C. Bennett, Texaco ETP Inc.
	8	Terrence M. McNulty, Landowner
Rawlins Meeting (May 25, 1999)	1	Frank Krugh, Marathon Oil Company
	2	Doug Dowlin, Highland Enterprises
	3	Art Zeiger, Carbon County Commissioner
	4	Trent Morgan, Welding Contractor

Alvin Schmaltz	William J. Johnson	Jeanne Zuick
Ross Hennerman	C.L. Whiler	Birch Smith
Don and Nancy Bigley	David Petrie	Anne Smith
Gene Holt	LaVeta B. Pennock	Keith Slater
im Kaumo	Juanita Myers	G.W. Braze
Vellie Secale	David J. Bunning	Dan Hartley
ete Guernsey	Edgar T. Fay	Chuck Thompson
Curtis and Lisa Nelson	J.E. Mueller	Mike Cochran
isa Lelson	Garry Fedrizzy	Broch Pope
Rod Prosceno	Betty Wilkinson	Bob Flansburg
Chris Frost	A.C. Egbert	Ray Lovato
. Hinda	Doug Howard	Richard Vasa
alley Pedersen	Keith Dang	Randy Shipman
Frank Links	Lyle Woelich	Sharon Hamilton
		Bob Hamilton

 Table 7.2
 List of Attendees at the May 24, 1999, Public Meeting in Rock Springs, Wyoming, Continental Divide/Wamsutter II

 Natural Gas Project, Sweetwater and Carbon Counties, Wyoming.

7-2

7.1.1.2 Record of Proceedings/Rock Springs

CONTINENTAL DIVIDE/WAMSUTTER II DRAFT EIS PUBLIC HEARING MAY 24, 1999 7:00pm

Meeting streed as 7.00 P.M., Bail LeBarros introduced himself and welcomed everybody. Ecolisist on the sudiants link the court report milled to appear for the bening and a page will be noted to forms filled the substrated and the forms filles and in The Dealing will be noted to a linest experimons, built LeBarrow, Alial Dearis and a pages statement to the sudiance (see Attachment 1). Introduced the following advisionals introduced with the programment of the Ells.

- Pase J. Guenney
 Project Manzger, TRC Marish Associates. Inc., an environmental
 consulting firm contracts to prepare the drsft ELS.
 Kirk Steinle
 Annoco Production Company, project coordinator for oil and gas
 operation participating in the development project.
- Clare Miller BLM Rawlins Field Office, BLM Team Lender for preparation of the Draft EIS.
- Teri Deakins BLM Rock Springs Field Office Team Leader for the Draft EIS.
- Scott Archer BLM Air Quality Specialist from the National Applied Resource Sciences Center in Denver, coordinator for the Air Quality Analysis.
- Clare Miller summarized the Continental Divide/Wamsutter II Natural Gas Project and findings of the draft environmental impect statement. (See Attachment 2)
- Bill recognized the first registered speaker.

SPEAKERS:

3

Deald Hartlay, Southwest Wyoming Industrial Association - le favor of the Proposed Action of J.000 wells. The timing of this project is appropriate in light of the badget shortfall faced by Swerneyet and Carbon Commisdollars in the next 20-30 years with a psyroll of 660 millioo. Support a decision in favor of the Proposed Action.

Raody Shipman . Elected to send in written comments,

Chuck Thampson, Key - Elected to send to written comments

2 G. W. Bragh, SCC Sterling Company - The most important statement is "No significant

Record of Proceedings/Rock Springs, Page 2

2 impact." If it doesn't impact seything and it helps the economy and me personally. Let's go on with it.

Eills Wheeler, Searle Brothers - Elected to send in written comments,

Divide Davide Tables, bolto Bauerian Thousert company (i.e., 2. Bodt gering native, parely to provide the TBAC seconds because. Attemption Baceline Antemption Baceline Baceline Antemption Baceline Baceline Antemption Baceline Bacel

Tim Kasmo, Southwettern Wyeming Mineral Association - Since November 1997, the eli and gas industry has jost 52,000 jobs and that down 136,000 oil wells and 59,000 gas wells. Industry will probably be looking as geing everses to acore Bill Richardson. (See Attachmen 3, Letter from Southwest Wyeming Mineral Association and Associated Press article from the Casper-Sate y Brone Smith).

Read an article from Wyoming Outdoor Council. (See Attachment 4, Wyoming Outdoor Council's Red Desert Article)

We live here and show what a germ plots this is. We want this projects to go showship. This is not lowest in the same in proph and if. No job for summer andems. If is how plots the same shows the same

I am speaking for the Mineral Association and we're in total support of this project.

William Jehanes, Usito Pucific Resources - This is America and things are applied from the method be occurry to the folder. We car't prove meterandem in Wyrening. So we get build and the second the second Record of Proceedings/Rock Springs, Attachment 1, Page 1

PUBLIC MEETING/HEARING PROCEEDINGS CONTINENTAL DIVIDE/WAMSUTTER II DRAFT ENVIRONMENTAL IMPACT STATEMENT

May 24, 1999 - 7 pm - BLM Rock Springs Field Office May 25, 1999 - 7 pm - BLM Rawlins Field Office

Welcome and opening remarks: BLM Manager and/or meeting administrator

Good evening. I would like to welcome you to this public hearing for the Continental Divide/Wammuter II Draft Environmental Impact Statement. I ac. hearing field Office. I will be the hearing officer this evening. In addition. I would also like to introduce the following individuals who helped prepare the document and who have been available during the open house and who will be available immediately after the formal testimony to helped party further questions.

Peter J. Guernsey - Project Manager, TRC Mariah Associates Inc., an environmental consulting firm contracted to prepare the draft ETS.

Record of Proceedings/Rock Springs, Page 3

5 wells dug by the Oil & Gas companies. Nobody is the oil field wants to lose these. We even stop and watch sage chickens cross the road and count them. We have to supply what we have to other parts of the United States just as we count on them to provide us with their products.

With no more registered speakers and oo more testimooies for the record, I declare this public hearing closed as of 7:50 P.M. - Bill LeBarron

Bill informed the group "If any of you have further questions, feel free to discuss them with either BLM staff; Peter Guernsey, TRC Mariah Associates Inc., and/or Kirk Steinle.

	oceedings/Rock Springs, Attachment 1,	R
Page 2	Amoco Production Company,	P
xirk steinie .		s
	project coordinator for oil and	0
	gas operators participating in the	1
	development project.	0
		f
Clare Miller -	BLM Rawlins Field Office, BLM	
	Team Leader for preparation of the	W
	Draft EIS.	3
		a
Teri Deakins -	BLM Rock Springs Field Office,	2
	assistant Team Leader for the Draft	
	EIS.	В
		a
Scott Archer -	BLM Air Quality Specialist from the	
	National Applied Resource Sciences	1 1
	Center in Denver, coordinator for the	r
	Air Quality Analysis.	I
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Record of Proceedings/Rock Springs, Attachment 1, Page 3

The purpose of this hearing is to provide the public an opportunity to submit for the record oral and written testimony on the recently completed draft environmental impact statement for the Continental Divide/Hamsutter II Natural das Project located approximately morth and south of Mamauter, Myoming. This Environmental Impact Statement was prepared by TRC Mariah Associates Inc., an environmental consulting firm, with the guidance, participation, and independent evaluation of the Bureau of Land Management.

All comments on the draft environmental impact statement, both oral and written received tonight, will be considered in preparing the final environmental impacts statement. Comments, including names and street addresses of participants will be available for public review during business hours and may be publiched as part of the final environmental impact statement. Individual respondents may request confidentiality. If you wish to withhold your name or street address from public review or from discloaure under the Freedom of information Act, you must state this prominently at the beginning of your comments. Such requests will be honcred to the strent allowed by law. All Record of Proceedings/Rock Springs, Attachment 1, Page 4

autorisistons and oral statements from organizations or businesses, and from individuals identifying thamselves as representatives or officials of organizations or businesses, will be made available for public imspection in their entirety.

Written comments will be received by the BLM through July 1, 1999, and should be sent to the BLM, attention Clare Miller, EIS Team Leader, P.O. Box 2407, Rawlins, Wyoming, 82301.

Before I begin to recognize those of you who have asked to testify. I would like to set some ground rules. If you have not registered, please do so. If you have indicated you wish to testify, I will recognize you in the order that you have registered. If you registered and did not indicate you wish to testify, but decide during the proceeding you want to testify. I will ask for additional comments after all of the registered spacksrs have spoken.

When recognized, please come up to the podium so everyone present cash hear, state your name, address, and if you represent zomeone other than yourself, and the name of the organization. Please speak clearly so that the reporter can hear your remarks. We generally limit testimony to tem minutes to allow

Record of Proceedings/Rock Springs, Attachment 1, Page 5

everyone a chance to speak; however, if we have only a few people who want to testify, we may allow you to speak a bit longer.

Also, if you are testifying from a written statement, if you would give us a copy of your statement, it will help the court reporter in preparing an accurate record.

As a public hearing, this is not a forum for questions and debate. We request that you not question anyone during their testimony. However, the reporter or I may need to ask a question for clarification of those who do testify.

We realize that some of you may have questions or items that you want to discuss. After the formal hearing is closed, SLM staff, Peter Querney representing the contractor, and Kirk Steinle who is the company's representative will be available to answer questions. However, questions and comments will not be recorded and will not be made part of the formal record.

Are there any questions regarding these proceeding?

I would now like to have Clare Miller, the BLM EIS

7-4

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Team Leader, briefly summarize the Continental Divide/Wamsutter II Natural Ges Project and findings in the draft environmental impact statement. Immediately after the summary, public testimony will begin.

I will now recognize our first registered speaker.

Thank you. That is the last registered speaker. Are there any members of the audience who wish to introduce testimony for the record this evening?

If there are no further spaskers, I declare this public hearing closed as of _____n. Thank you very much for attendance. If any of you have further questions, feel free to discuss them with the either BW staff, Peter Guernaey representative of TRC Mariah Associates Inc., and/or Kirk Steinie - company representative.

Record of Proceedings/Rock Springs, Attachment 2, Page 1

Executive Summary

Amoce Production Company, Union Pacific Resources Company, Yates Petroleum Corporation, Snyder Oil Corporation, and other natural gas operators (collectively known as the Operators) propose to explore for and develop natural gas reserves on the Continental Divids/Wamsutter II Project Area (CD/WIIPA) in sastern Sweetwater County and southwestern Carbon County, Wyoming. This draft EIS was prepared in accordance with the National Environmental Policy Act of 1969, as amanded, to assess the suvironmantal consequences of the Operators' proposed development and is intended to provide the public and decision-makers with a complete and objective evaluation of impacts, both beneficial and adverse, resulting from the Proposed Action and reasonable alternatives.

The proposed Action, two alternative development scrategies, and a Bo Action liternative are analysed. Additional alternatives including those considering project area-vide well densities/spacing pattars, fever wells, increased surface disturbance per well, phased devalopment, no development, and devalopment in the Addhe Forw Milderness Study Area were considered but rejucted for environmental, economic, and/or legal resons.

The CD/WII DEIS analyzes the impacts of the Proposed Action - full field development of 3,000 wells on Record of Proceedings/Rock Springs, Attachment 2, Page 2

3000 well locations, along with access reads, pipelines and other ancillary facilities. Alternative A is similar to the proposed Action, but would init disturbance on poderal lands info vulse resources · to no face than l acress of additional disturbance per section. Alternative B laio is similar to the proposed Action, but would limit disturbance to no more than 10 acress of additional disturbance per section or pederal lands within sensitive resources . The No Action Alternative suffyse within the project area, and development (645 wells) within the project area, and

The Wo Action Alternative analysed in this EIT would involve the rejection of the Operators' Proposed Action and Alternatives A and 3; however, denial of the development alternatives would not constitutes a denial of all natural gas development on the area. Since over hind for the CD/MTERN is not federally owned and since the BLM would not dany access to these private and tate owned lands, nor would the BLM silve the drainage of federal minerais, some development of the COMINENT Divide/Hamauter II project area would cour under the No Action Alternative.

The proposed project is to explore for and develop natural gas and condensate reserves present in the Almond Formation and other formations at depths of

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approximately 7,000-10,000 ft in the project area. The project area encompasses approximately 1,061,200 acres (50 % federal surface, 1 % state surface, and 43 % private surface).

Operators propose to construct, drill, complete, operate, and reclaim a maximum of 3,000 new well locations on variable spacing patterns within the project area beginning in 1999 (subsequent to the release of the Record of Decision) and continuing for 20 years with an estimated life of project of 30-50 years. Additional construction activities include a total of approximately 1,500 mi of new or upgraded roads, 1,500 mi of new pipelines, five compressor stations, one gas processing facility, 10 evaporation ponds, 5 disposal wells, and 50 water well. Standard procedures as currently used in gas field developments throughout Wyoming would be employed during project development and operations, and all project activities conducted during the LOP would comply with applicable federal, state, and county laws, regulations, and stipulations. Gas from the project would be transported through existing and newly developed pipelines linking natural gas wells with existing regional pipelines in the project area.

Numerous standard project-specific and site-specific mitigation measures would be employed during all phases of the project to assure that potential impacts are minimized. Site-specific measures would Record of Proceedings/Rock Springs, Attachment 2, Page 4 be applied as specified in approved applications for parmit to drill and rights of way applications for each new project feature. Surveys and/or sonitoring

would be conducted for cultural resources, paleontological resources, ruppor mass, says grouse lake, threatened, endangured, candidate, and special status genetis, and reclamation erass to document their status relative to specific disturbance as possible on areas disturbed during initial construction that are not required for the DOP. Upon completion of the project, all wells would be removed, and most disturbed areas would be reclaimed and revocated.

Critical elements of the human environment that could be affected by the proposed project include air quality, cultural resources, environmental justice, floodphain, heire samrion relations concerns, threatened and endangered (TaB) species, heardown or solid wastes, water quality, wetlands/riparian sones, and wilderness. Potentially significant advarse impacts could occur to these elements and other resources as follows: surface water resources under any alternative, solia and vegetation on stabilized dunes under the Proposed Action and Nottion Alternatives; oli and ous development and resources under any elementive that denies mineral exploration and development of wisising lesses or extract these resources; Record of Proceedings/Rock Springs, Attachment 2, Page 6

Also specific paleontologic surveys and monitoring would be conducted as mecessary to minimize potential advarse impacts to important feesils, and therefore, no significant impacts are anticipated under any alternative.

Potential advarse impacts to cultural resources would be mitigated through data recovery and/or avoidance of significant properties. No significant impacts are anticipated under any alternative.

Potential impacts to wild horses under the proposed action and alternatives are not anticipated to be significant.

The spocies that may occur on the area include black-footed farret, bald each, persorine falcon, and Ute ladies tresses and described in the biological assessment for this project (see Appendix 3). In addition, swift fox and mountain plover, proposed threatened species, potentially occur on the area, and four TAE (ish pecies'. Colorado squarilah, humphack chub, bonytail chub, and rasorbaks sucker-occur domarces in the Green River/Colorado River farings. No advarse effects essitive species or significant impacts to state sensitive species are anticipated from project development under any attemative.

This EIS presents the BLMs analysis of environmental impacts under the authority of NEPA and associated

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Percentional users and rural residents that are displaced as result of the project under the Proposed Action; big game and reptor productivity as a result of displacement due to human scivity during project development under the Proposed Action; and visual resources in Visual Resource Management (VMN) Class II areas under the Groupsed Action and No Action Alternatives.

No significant impacts to ground water resources in the project area are anticipated under any alternative.

Since ILA'spproved activities must comply with all applicable local, state, tribal, and federal air quality law, statues, requisitions, standards, and implementation plans, significant adverse impacts to implementation of the proposed action or any of the alternative actions.

No significant atmospheric deposition (acid rain) impacts are predicted to occur in sensitive area lakes, including the extremely sensitive lakes in the FSD Class I Mount Zirkel Wilderness Area.

Given the reasonable, but conservative, nature of the cumulative air quality impact analysis it is unlikely that noticeable visibility impacts would occur in adjacent wilderness areas. Record of Proceedings/Rock Springs, Attachment 2, Page 7

rules and guidelines. The BLM will use this analysis to make a decision requarding the continue authorization of construction, drilling, completion, operation, and reclamation activities as proposed by the operators for explorations and development of natural ges in the CD/WITPA.

Southwest Wyoming Mineral Association P.O. Box 2783 Rock Springs, Wyoming 82902

May 14, 1999

Dear Members:

At a recent meeting of the Independent Petroleum Association of America and US y Secretary Bill Richardson..... Energy Secre

(Brure Smith- a pi) "According to the Independent Petroleam Assoc of America , since November, 1997 The oll and gas industry has lost 50,000 jobs and shut down 156,000 oll wells and 59,000 gas wells." To quate Bill Richardson, "There is real opportunity around the world, I know we have to take care of things here at hone - but internationally you guys need to look mit a little. Especially if these margers (among major oil compan) happen, I think there will be more apportunity for you overses."

I's don't need to look oversear, we have a potentially large, long term project in the works right have in our own beckverd.

We are all well aware of the alow start we have had in the oil pateb in 1999. We howe an opportunity to help and austain the oil & gas business in Wynming. The draft environmental impact statement for Continental Divide/Wamsutter II Natural Gas Project was recently released. If you want to see this project approved by the BLM and ses drillin start in 1599 you absolutely need to support it. The project proposes 3,000 isentiona33,000 wells, to be drilled over 20 years. We need to support "The Proposed Actins - full field devalopment.

The public meeting will be on May 24, 1999 at the Rock Springs BLM office at 18t people internet will be a real of the second se seas to important at Dees machings. At reveal to LAA insettings concerning OAGE project in support has been 5 environmentalities to 1 industry. There want this project its mar-farward, we have a support 11 and latt the BLM know that we are still here. Please make explore if this industry and pass in the very such that depend on all A gas to make their living, and encourage them to attend these metalizes. If you have any questions or common please and libetly at (OF) 127-6363.

Thank yos.

Lyna Hall, President Betty Wilkinson, Secretary Tim Kanmo, Vice-president LaVeta Penneck, Treasurer

Record of Proceedings/Rock Springs, Attachment 3, Page 2 Oil industry changes may

be boon for independents

By BRUCE SMITH

CHARLESTON, S.C. - Recent tough times in the nation's oil patch may be easing while changes in the industry globally may provide new opportunities for independent producers, U.S. Energy Secretary Bill Richard-

son said Tuesday. "Domestic oil and gas pro-duction is key to our economic energy and national security," Richardson lold a meeting of the Independent Petroleum Associ-ation of America. "Addressing low oil prices requires balanc-ing energy, economic and nanal security issue

OIL

Continued from 'Case He said that major oil compa-nies have shilted more of their invastment to overseas exploinvastment to overseat explo-ration and production, partly because of lower costs. In addition, recent mergers among the indus-

recent mergers among the Indu-try's largest companies may give independents an opportunity to acquire smaller domestic wells. "It stands to reason that, as the majors look disewhere, inde-pendent production will likely represent an ever-larger ahare of our domaslic production." Richardson said, "Our policies of

The domestic oil industry has been hammered by lower de-mand because of economic

mano because of economic problems in Asis and warmer winters, increased production by some foreign producers and resumption of Iraqioil exports. Since November 1997, the tri-dustry has lost 52,000 jobs and shut down 136,000 oil wells and \$9,000 nit wells. 59,000 gas wells, according to the association. It represents 8,000 crude oil and natural gas

5.000 crude oil and natural gas producers in 33 states. With prices rebounding somewhat in recent months, Richardson said. "I say, and I say this guardedly, I think we're agains a super kendid. seeing some hopelul signs. Please see OIL B4

converge with the needs and in-terests of independent produc-ers."

al home — but internationally, you guys need to look out a little more. Especially if these mergers happen, I think there will be more opportunity for you overseas he said

However, he said inde However, he said independent producers also need to look for niches overseas. "There is just real opportunity sround the world. I know we have to take care of things here Record of Proceedings/Rock Springs, Attachment 4, Page 1

Wyoming Outdoor Council Frontine Report Winese 1932.0 Issues Under-

The Red Desert: Natural Treasure Faces Opportunistic Destruction

by Tem Dustin

Despite the opportunistic destruction of much of your public lands by mining, timbering, overgrazing, oil and gas drilling and politilien, there still remain some exquisite crown jewels of nature and history they haven't groom around to yet.

One of the grandesi of these special places, the Wyoming Red Desert, is now "on the block." It'ls mostly your property, but is handled for you by the U.S. Burezu of Land Maragement (BLM), an agency with hitle havery of sensitivity.

Linten to what's involved. The Red Desert reaches for 70 miles from South Pass to Rock Springs. It includes purs of the Great Divide Dasn, a unique unener drainage exercised by the Continental Divide which keeps to itself all of the scats 10 includes of right that fails there eash year.

Bit that's just one of the Rod Deservi's flastinations. Thousands of American emigranes seeking new lives in the unsatiled West drive their wagots through South Plass at a break in the central Rocky Mountains, goided by Oregon Buttle, waible for a hundred miles

A few miles further south in this study landscape, you come upon the Tri-Territorial Mosument, marking the juncus there great and masses which define the mire western tail of the United Status, acquired during the first half of the transversite concerns; the Louistans Purchase, the acquisition from Mexico, and the Oregon Territory. re of the

A shiver of biasey, avea revenues, is unaveidable. But travel only there more miles south on a standy track and you accend the goals spike of Steambout Mountain to a wonderland of spike proves graced by a cool sping. Secretion instead Genere Ah level and one of the councry's last with domes bands, and for any standard by to the prop.

After a sight of coyote seren ion down between St #75 sh 5. 00 where vasi fields of sand dures frame the Boar's Tusk, an ancient volcanic core several hundred feet tail

Look back to the remnarts of Steamboal, which resembles an immense Titanic plowing through serve fields and sand dunce on iss way to some mythical poll of call

But something is detailably wrong here. You do not have to aquist in the desert samlight to see the protesque iomusions on the indicape. Bissoing the Bacely, Tark sand date states is a long string of high tension poles, tracered a this privince string to achieve electricity to a LUS. Seel account is not cent in a Alkintic City. The mistic, but not the poles, quit 15 years

Marring the surrounding desert are oil wells, storage tanks, gas lines and brine-water rotatining ponds

As if these blots on the landscape were not enough, they could be merely hardingers of an imminent invasion. Earlier this year the BLM annuanced its mere to offer 29 isasse eccempaning thousants of acres without this "Jack Merrow Rills" region to all and age scoperations. The lasse, scattered within 6 (SUG)-core sector. were to be add to August 4

remensations, including dia weiter with 40 ward 'hinny caloring the region, were electrified. Chrone instaching the non latak 'Withou Rape, the Worning Ontoiro Chemeri, be' Widdit Mangemen Jasmier and the Bairen Calo II the uson objections. Gn July 20, ELMMs Wyomeng Offer decided to defer paratage the lanas well they completed a refusated Activity Phare's (CAP) to decoming the tunnes of a data of a development. The report in projector is come stret "Co ions time next year

Record of Proceedings/Rock Springs, Attachment 4, Page 2

There are countless reasons for objecting to the destruction of this unique natural and historic treature. Here are just a few of

 Oil and gas prices are at historic lows. This would dramatically reduce revenues generated in exchange for p Red Deserth publicly-owned assets. The aution has no present need for the fael that would be generated here. ed in exchange for plundering the

* Desert alk and wild horse populations would be depressed or extrapted if leasing proceeds

• Oil and gas facility construction would destroy the straft printipe landscape and its cultural and historic resources, who public policy should instead dictor removing existing encruchments and partmenently protociling the area/s wildlands. diditie, water and air quality

* Few opportunities remain to preserve America?s tatural desert landscopes. This unique area cannot be sacrificed on the anvil of corporate reofits.

Industry is counting on public ignorance and indifference. Prove them wrang: write to AJ Picruot. Wyoming Saste Director. U.S. Berrou of Land Menagement. PO Bass 1528, Cheyenne. WY 82003. Do it now. Present and fature generations will be the heard/initial ciaries of your act

Tom Dustin is Environmental Affairs Adviser to the Indiana Izzak Welton Leugue.

7.1.1.3 Ellis Wheeler PUBLIC COMMENT SHEET Continental Divide/Wamsuter II Natural Gas Project Name Ellis L Mitcher Amount March Factors March March Factors Openantes Death Natural Gas Project March March Factors Openantes Death Natural March Antony March Death Natural March Death Natural March Antony March Death Natural March De	2.1.1.5 Terrence M. MeNulty JIM Performer entrance Description Description <
---	--

	PUBLIC COMMENT SHEET
	atinental Divide/Wamsutter II Natural Gas Project
Address:	Dallas C Bennett P.O. Ba 1629
	Rock Springer 104 52935 Taxaco Ett Inc.
De yoe wish a If you check yo bustness hours a and address from comment. We	b is so the mailing list for this project? Yes
comments will b Comments	e mete available für pacific myses.
Z	craco supports the project and
- augus	the all to more forward as fast
	Dulla & Baurett
	Thank you for your commence.

7.1.1.6 BLM Response to Rock Springs Public Meeting Comments

<u>Comment Response: All Commentors</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

<u>Comment Response 1: Donald Hartley</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

<u>Comment Response 2: G.W. Bragh</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

<u>Comment Response 3: David Bunning</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM believes socioeconomic impacts are adequately addressed in the DEIS (see DEIS Sections 3.4 and 4.4). The BLM considers all comments during preparation of an EIS.

<u>Comment Response 4: Tim Kaumo</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

<u>Comment Response 5: William Johnson</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS. <u>Comment Response 6: Ellis Wheeler</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

<u>Comment Response 7: Dallas Bennet</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

<u>Comment Response 8: Terrence M. McNulty</u> - The BLM believes that with the implementation of the mitigation/protection practices developed for this project most significant impacts to big game animals on their winter ranges, and to the winter ranges themselves would be avoided. A more thorough discussion is presented in DEIS Section 4.2.3.1, pages 4.47 to 4.58.

<u>Comment Response 9: Terrence M. McNulty</u> - The BLM believes that impacts to terrain features would not be significant because project activities would not require moving large amounts of earth and no prominent landforms would be destroyed. Roads and pipelines would be built to project-specific guidelines to reduce their impacts. More thorough discussions are presented in DEIS Section 4.1.2, pages 4-22 to 4-25 and Section 4.6, pages 4-89 to 4-92. <u>Comment Response 10: Terrence M. McNulty</u> - Please see the previous comment response. An estimated 50% of the 3,000 wells (1,500) would be drilled on private lands.

<u>Comment Response 11: Terrence M. McNulty</u> - The BLM has no jurisdiction as to how monics collected from oil and gas operations are distributed. Private surface owners normally negotiate with Operators for fees for operating on their land, and private mineral owners normally receive a payment for any gas/oil recovered from their reservoirs. State and local taxes on operations would total approximately S485 million (see Table 4.15 in this FEIS), and this money would be used within Wyoming and, in many cases, within Sweetwater and Carbon Counties. Federal royalties during the same 25-year period would total 3396 million (see Table 4.15 in this FEIS), half of which is returned to the State of Wyoming.

7.1.2 Rawlins Meeting, May 25, 1999

The list of commentors at the Rawlins meeting is presented in Table 7.1.

7.1.2.1 Attendance Record

Table 7.3 presents the list of attendees at the Rawlins meeting.

Table 7.3 List of Attendees at the May 25, 1999, Public Meeting in Rawlins, Wyoming, Continental Divide/Wamsutter II Natural Gas Project, Sweetwater and Carbon Counties, Wyoming.

Jason Maxon	Kenny White	
Neil Hurst	Donald R. Corson	
Art Zeiger	Mark Balderston	
Jerome Nash	Brent Lee	
Don Smith	Gary English	
Jon Johnson	Doug Dowlin	
Frank Krugh	Tori Adams	
Dan Haman	Trent Morgan	
Kip B. Purinton		

7.1.2.2	Record of Proceedings/Rawlins	Record	of Proceedings/Rawlins, Page 3
	1		3
1	BUREAU OF LAND MANAGEMENT	1	for the Dreft EIS from the Rock Springs
2	STATE OF WYOMING, COUNTY OF CARBON	2	office.
3		3	Scott Archer, right in beck, behind
4	IN RET		the megic pillers that we have in our room
5	CONTINENTAL DIVIDE/WAMSUTTER) II DRAFT EIS.	5	here. Scott is the BLM eir quality
6		6	specialist from the Service Center in
7	PUBLIC MEARING	1	Denver, and he is the coordinator for the
	BEFORE: MR. KURT KOTTER, Meering Officer		Air Quelity Anelysis for this EIS.
9	Freaiding.		Kirk just welked in. He is in the
10		10	back, and he is standing against the back of
11		11	the room there. Again, with Amoco
12		12	Productione, the project coordinator for nil
13		13	and gas operators participating in the
14	1	14	development project.
15		15	I would also like to sey that we
16		16	have Mary Reed here. Hery is a wildlife
17		17	biologist with SLM here in Rewline. She is
18	0710	18	e teem member on the preparation of the
1.9	ORIGINAL	19	dreft EIS. Mary will be eveileble for any
20		20	questions or conmente you might have at the
21	BE IT REMEMBERED that on the Arth day of	21	end of the formel testimony or formel
22	May, 1999, et the SLN Office, 1300 North Third, Rewlins, Carbon County, Myoming, the	22	heering.
23	ebove-entitled metter came on for bearing before MR. KURT KOTTER, Meering Officer	23	The purpose of this hearing is to
24	Presiding, whereupon the following proceedings were hed, to wit:	24	provide the public en opportuoity to submit
25	PROCEEDINGS:	25	for the record orel end written testimony on
	Frontier Roperting Garvine Jahn Weit abid Krunt Daysman, WT Ropei (Scott parts)		Frontier Reporting Curvine att West adds Brown Chapmann, WT Stand Front Arts

ecord o	f Proceedings/Rawlins, Page 2	Record	of Proceedings/Rawlins, Page 4
	2		4
1	REARING DIFICER KOTTER: Good	1	the recently completed dreft environmentel
2	evening. I'd welcome you to this public	2	impect etetement for the Continentel
3	hearing for the Continental Divide/Wensutter	3	Divide/Wemautter II Netural Gee Project
4	II Dreft EIS. My come is Kurt Kotter, and I		located approximately north and south of
5	om the field meneger for the Rewlice BLM	5	Mensutter, Myoming. This Environmentel
6	office. I would like to introduce the	6	Impect Statement was prepared by TRC Mariah
7	following individuals who have helped	7	Associates Inc., en environmentel consulting
8	prepare the Dreft EIS and who have been		firm, with guidence, perticipation, and
9	eveileble during the open house this		independent eveluation of the Sureau of Land
0	efternoon. And they will be eveilable	10	Henegenent,
1	immediately after our meeting, after the	11	All comments on the dreft
2	formel testimony to enswer any further	12	Environmentel Impect Stetement, both orel
3	questions that you might have.	13	end written received tonight, will be
	Feter J. Guernsey. Pete is the	14	considered in propering the finel
	project manager with TRC Mariah Associates	1.5	Environmentel Impact Statement. Commante,
6	Inc., en environmentel consulting firm thet	16	including memes and etreet eddresses of
,	is contracted to prepare the draft IIS	17	perticipents will be eveileble for public
•	document.	18	review doring business hours and may be
9	Kirk Steinle. I eew Kirk eerlier.	15	published as part of the final Environmental
,	Meybe we'll catch bin leter as be comes in.	20	Impect Stetement.
1	Kirk is with Amoco Productico Company. When	21	Individuel respondente may request
2	he comee in, 1º11 make sure to introduce	22	confidentiality. If you wish to withhold
3	bim.	23	your came or street address from public
	Teri Deckine, stending there by the	24	review or from disclosure undar the Freedom
5	sick, BLM's Rock Springs office, teen leader	25	of Information Act, you must state this
-	Presite: Reporting Garvingo Ball Went and Novas Charpman, WY System Frank Jessen		Frentier Repeting Service Line

7-10

5 Peginning of your Hquests will be honored to i by the iow. All is stotsments from Uninesses and from	1 2 3	7 We realize that some of you may have questions or items that you want to discuss.
equests will be honored to 1 by the law. All rel stataments from	2	
by the low. All set stetoments from		
el stetsments from	3	
		After the formel bearing is closed, BLM
usinesses and from		staff, Peter Guernsey representing the
		contractor, and Kirk Steinle who is the
fying themselves es	6	compeny's representative, will be sveilable
officials of		to snawer questions. However, questions and
usinceses, will be made		
ic inspection in their		comments will not be recorded and will not be made part of the formel record.
	10	
mmente will be received by	11	Now, ere there eny questions
ly 1, 1999, and should be	12	regarding these proceedings?
ttention Clare Miller, EIS	13	Now, how we proceed this evening is
Box 2407, Rewling,	14	there's a form out there you can fill out
		for written conments if you desire to go
egin to recognize those of	15	that route. If you do not wish to speek
to testify, I would like	16	this evening, I think Teri will have forms
	17	on the table that you can use to put down
rulos. If you have not	16	whatever written stetements you would like
do so. If you have	19	to leave with us.
h to testify, I will	20	Okey. At this point then, I would
he order that you have	21	like to have Clare Miller, the BLM EIS Team
	22	Lesder, briefly summerize the Coptioentel
	23	Divide/Weneutter II Neturel Ges Project and
ings you went to testify,	24	findings in the dreft EIS. After he makes
tionel comments efter ell	25	this summery, then we'll have our time for
to Lti		testify, but decide 23 s you went to testify, 24 ohel comments efter ell 25 sting dervins me form

ord of	Proceedings/Rawlins, Page 6
	6
1	of the registered speakers have epoken.
2	When recognized, places come up to
3	the podium so everyone present geo heer,
4	state your name, address, and if you
5	represent concone other then yourself, the
6	name of the organization you represent.
7	Plesse speck clearly so that the court
	reporter cen heer your remerke.
9	Now, we generally limit testimony to
0	ten minutes to allow everyone a chance to
1	opesk; however, it eppears we only have a
2	few people who are going to testify this
3	evening. I think we would ellow you to
4	epeek e bit longer, if thet's necessary.
5	Also, if you are testifying from a
6	written etetement, if you would give us e
,	copy of your etstement, it will help the
•	court reporter in preparing an accurate
9	record.
0	As a public bearing, this out a
1	forum for questions and debets. We sak that
2	you not question enyone during their
	testimony. However, the seporter or I may
	need to sek a question for clarification of
5	those who do tsetify.

Record of Proceedings/Rawlins, Page 8 1 the public testinony. Clere. 2 MR. MILLER: Amone Production 3 Company, Union Pacific Resources Company, 4 Yates Petroleum Corporation, Snyder Oil Corporatioo, and other natural gas 6 operatore, collectively known ee the 7 operatore, propose to explore for and . develop netural ges recervae on the 9 Continentel Civide/Wemeutter II Project Aree 10 in eastern Sweetweter County and 11 couthwesters Cerbon County, Wyoming. 12 This dreft EIS wee prepared in 13 eccordence with the Netionel Environmentel 14 Policy Act of 1969, es emended, to essese 15 the environmental consequences of the 16 operators' proposed development and is 17 intended to provide the public end 18 decision-mekers with a complete and 19 objective evaluation of impacts, both 20 beneficiel and adverse, resulting from the 21 proposed action and ressonable elternative. 22 Now, the proposed actico, two 23 alternetive development strategies, and a No 24 Action Alternetivs are enelyzed. Additional 25 elternstives including those consideriog Frontier Reporting Carvies

ord o	of Proceedings/Rawlins, Page 9	Record of	of Proceedings/Rawlins, Page 11
Γ	9		11
	project arcs-wide well dansities/specing	1	1,061,200 ecreo, 50 percent of which is
	petterno, fewer wells, increased ourface	2	federel surface, 49 percent privets surface,
	disturbance per well, phesed devolopment, no	3	end 1 percent otete surface.
	development, and development in the Adobe		Operators propose to construct,
	Town Wilderness Study Aree were considered	5	drill, complete, operate, and reclaim a
	but rejected for environmental, economic,		meximum of 3,000 new well locations on
1	end/or legel resecns.	7	veriable specing patterns within the project
	The Continentel Divids/Wemsutter II	8	eree beginning in 1995, subsequent to the
	Dreft SIS enalyzes the impects of the	9	release of the record of decision of this
	proposed action, which is full-field	10	EIS, and continuing for 20 years with an
	development of 3,000 wello on 3,000 well	11	estimated life of project of 30 to 30 years.
	locations, elong with access reads,	12	Additional construction activities
	pipelines, and other entillery facilities.	13	include a total of approximately 1,500 miles
1	Alternative A is similar to the	14	of new end upgreded wells, 1500 miles of new
	proposed action, but would limit disturbance	15	pipelines, 5 compressor stations, 1 gas
	on Federel lends in consistive recource	16	processing fecility, 10 eveporation ponds, 5
	erees, erees containing high value	17	disposal wells, and 50 water wells.
1	resources, to no more than 14 ecres of	18	Stenderd procedures as currently
1	additional disturbance per section.	19	used in ges field developments throughout
	Alternative B also is similar to the	20	Myoming would be employed during project
	proposed ection, but would limit disturbance	21	development and operations, and all project
	to no more than 30 acres of edditional	22	ectivities conducted during the life of the
	disturbence per section on Fedorel lends	23	project would comply with applicable
	within consitive resource crose. The No	24	federal, state, and county laws,
	Action Alternative enalyzes the current,	25	regulations, and stipulations. Gas from the
	Treaties Reporting Service Dis West Sectors Congress, WY Sava		Frontier Reporting Corvise 323 West Jobs Direct Cheyman, WY 2005

Г	10	II r	
			12
1	ongoing level of development of	1	project would be transported through
2	approximately \$45 wello within the project	2	existing and newly developed pipelines
3	erse, and a continuation of that activity	3	linking neturel ges wells with existing
4	into the future.	4	regionel pipelines in the project eres.
5	The No Action Alternetive enelyzed		Numerous site-epecific mitigation
6	in this EIS would involve the rejection of	6	measures would be employed during ell phases
7	the operators' proposed action and	7	of the project to assure that potential
8	Alternetives A and B; however, deniel of the	1 1	impects are minimized. Site-specific
9	development elternatives would not	9	messures would be applied as specified in
10	constitute e dehiel of ell neturel ges	10	approved applications for permit to drill
11	development on the eree.	11	and rights-of-way applications for each new
12	Since over helf of the Continental	12	project feature. Burveys and/or monitoring
13	Divide/Wemsutter II project eres is not	13	would be conducted for cultural resources,
14	federelly owned and eince the BLN would not	14	peleontological resources, reptor nests,
15	deny eccess to these private and state-owned	15	eege groues lake, threatened, endengared,
16	lends, nor would the BLM ellow the drainage	16	condidets, and special status species, and
17	of federel minarels, some development of the	17	reclemetion eress to document their status
18	Continentel Divids/Wemeutter II project area	18	relative to specific disturbance activities.
19	would occur under the No Action Alternetive.	19	Reclamation would be conducted as
20	The proposed project is to explore	20	econ as possible on areas disturbed during
21	for and develop natural gas and condensate	21	initial construction that are not required
22	reserves present in the Almond Formetion end	22	for the life of the project. And upon
23	other formations at depths of approximately	23	completion of the project, all wells would
24	7,000 to 10,000 feet in the project eres.	24	be plugged and ebendoned, surface facilities
25	The project eres ancompensas epproximetely	25	would be removed, and most disturbed areas
-	Printier Basertise Service ast These two is to Device Gargesa, WY mass Service asta		Frantier Reporting Service Prantier Reporting Service 201 West with Dross Chargeness, WY cases

ord o	f Proceedings/Rawlins, Page 13	Record	of Proceedings/Rawlins, Page 15
ſ	13		15
.	would be reclaimed and ravagatated.	1	Sits-spacific palsontologic aurways
2 .	Critical alamants of the human	2	and monitoring would be conducted as
	anvironment that could be affected by the	3	necessary to minimize potential advaras
	proposed project include air quality,	4	impacts to important fossils, and therefore,
	cultural resources, anvironmental justice,	5	no significant impacts are anticipated under
	floodplains, Mativa American raligious		any alternativa.
	concerns, threatened and andangered species,	, ,	Potantial advarsa impacta to
	hezardous or solid wastas, watar quality,		cultural rescorces would be mitigated
	watlands/riparish zonas, and wildernass.	9	through data racovary and/or avoidance of
	Potentially aignificant advarage	10	aignificant proparties. No significant
	impacts could occur to these elements and	11	impacts are anticipated under any
	other resources as follows: surface water	12	alternative.
- 1	resources under any alternative; soils and	13	Potantial impacts to wild horses
	wagatation on stabilized dunes under the	14	under the proposed action and elternatives
	proposad action and No Action Alternativas,	15	are not anticipated to be aignificant.
	oil and gas davalopment and resources under	16	742 species that may occur on the
	any alternative that denies mineral	17	area include black-footed farrat, bald
	axploration and davalopment of existing	18	sagla, peragrina falcon, and Uta ladian
	leases or extract these resources;	19	treases as described in the biological
	recreational sears and rural residents that	20	assassment for this project which is in the
	are displaced as a result of the project	21	draft bill. In addition, awift fox and
	undar the proposed action; big gams and	22	mountain ployar, proponed threatened
	reptor productivity as a result of	23	spacies, potentially occur on the area, and
	displacement due to human activity during	24	four T45 fish spacias Colorado squawfish,
	project development under the proposed	25	humpback chub, bonytail chub, and razorback
-	Frencier Reparting Barvice 303 West block Bound Baryama, WY Stole		Frentier Reporting Service 343 West sets Street Georgen, WT (2011

	14
	action; and visual resources in Visual
	Resource Management Class II eress under the
	proposad action and No Action Alternatives.
	No aignificant impacts to
	groundwatar reacurcas in the project eras
	are anticipated under any alternative.
	Since ELM-approved activities must
	comply with all applicable local, state,
	tribel, and federal air quality laws,
	statutas, regulations, standards, and
	implementation plane, significant advaraa
	impacts to air quality are not anticipated
	to occur from implanantation of the proposed
	action or any of the alternative actions.
	No aignificant atmospharic
	deposition which is acid rain impacts
	are predicted to occur in sensitive area
	lakes, including the extremely sensitive
	lakes in the PSD Class I Mount Sirkal
	Wildernama Area.
	Givan the reasonable, but
-	conservative, sature of the cumulative air
	. quality impact analysis, it is unlikely that
	noticeable visibility impacts would occur in
	adjacent wilderness areas.

Record of Proceedings/Rawlins, Page 16 1 sucker occur downstream in the Green 2 Rivar/Colorado Rivar drainaga. No advaraa impacts to these species or significant 3 4 impacts to atata sansitive species are 5 anticipated from project davalopment ander . any alternative. As mantioned bafors, this EIS 8 presents the BLM's analysis of anvironmental . impacts undar the authority of the National 10 Environmental Policy Act and associated 11 rulas and gaidalinas. The BLM will use this 12 analysis and aubasquent public commant to 13 make a decision regarding the continued 14 authorization of construction, drilling, 15 complation, operation, and reclamation 16 activities as proposed by the operators for 17 exploration and davalopment of natural gas 2.0 in the Continental Divids/Wamautter II 19 Project Area. 20 HEARING OFFICES KOTTER: Thank you, 21 Clara. I will now racognize our first registered speaker. This would be Frank 22 23 Krough with Marathon Oil. 24 MR. KROUGH: My name is Frank 1 Krough, and I work with Merathon Oil 25 Prontier Reporting Service Int West Doch Great Chepters, WT Sant

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cord	of Proceedings/Rawlins, Page 17	Record	of Proceedings/Rawlins, Page 19
	17		19
	Company. Our address is 1501 Stampade	1	es fer es the dust control goes, all the
2	Avenue, Cody, Myoming \$2414. At this time I	2	operators have pratty well started putting a
8	would thank all the people participating in	3	lot of weter down when they construct the
	the preparation of this EIS. I think their		roads and give us compection because the
	time and patience has proven beneficial if		soil in the Wemputter eree end on down in
	the document is as good as it looks to be.	6	Reggs and north and so forth.
	Mersthon is in fevor of the proposed	7	If you don't get your compection in.
	ection that was presented in this document		get it pecked first, why, the coil just
	end that is a full-field development. By	9	turne to flour, and all the contractors or
	1 the extre time that is spent with the eir	10	2 the operators recognize this and ere putting
	quelity issue, it is felt to be well epent	11	a lot water down from the gat-go, aven
1	and that this issue will hopefully be	12	before they sterted the construction of
í	cleared up during the conment period. It	13	Pioneer Roed, realizing if they get the
	won't receive very meny detrimentel	14	compection it eaves then a lot of trooble
	Conments.	15	down the road, not only for eir quelity but
	With thet, we feel that the finel	16	make the oil wells nore eccercible to
	EIS will be issued in an expeditious menner	17	trucke. So I em in fevor of the whole
	end hopefully that will allow development to	18	project. Thenk you.
	Commence this year and then continue next	19	HEARING OFFICER KOTTER: Thenk you.
	yeer end for the length of the project. And	20	Are there any members of the sudience who
- 1	thet's all I hed to say.	21	wish to introduce testimony for the record
	HEARING OFFICER KOTTER: Thank you.	22	ee pert of this heering? Mr. Siegler. This
	Appreciate it. I have one maybe. Doug	23	ie Art Liegler, County Connissioner from
	Dewlin. I new him earlier. Gid you have	24	Cerbon County.
L	enything you would like to eay?	25	3 MR. SIEGLER: Do I have to give my
	Prositive Reporting 323 West Sett Frence Chryman, W7 Spot		Fredier Reparting Service Stat West Solds Reveal Georgene With Service

	of Proceedings/Rawlins, Page 18 -	Record	of Proceedings/Rawlins, Page 20
	18		2
1	MR. DAMLIN: Yeeh, I con make a few		3 eddrees and all this kind stuff egaio?
2	connente.	2	MEARING OFFICER KOTTER: I think
3	REARING OFFICER KOTTER: Come up to		we've got it.
4	the podium and places feel free to.		MR. SIEGLER: I am e county
5	MR. OAMLIN: I'm Doug Dewlin of		commissioner from Carboo County. I'd just
6	Sighland Enterprises. I cane here on March		
7	3rd, 23 years ego, 1876, end I have bed		3 times, we want all you operators to drill
	occession to drive all over this country that		- class, we went all you operators to drill
	is proposed down sround the Seystacks, the		the welle, pump the gen, cell the gas, and
10	Manevoy Buttes, down in Adobe Town by the	1 10	pay your teese. That's all I have to any.
11	Evereo Reach, Bitter Creek, and so forth.	1 11	MEARING OFFICER KOTTER: Anyone ale
12	And all that time I've even a helf dozen	12	who might care to introduce testimony ee
13	touriets or people looking for rocks or	12	pert of this hearing?
14	estifecte, whetever, down there. I think	14	MR. MORGAN: My none in Trent
15	one of then web reel gled to see us because	15	Morgen. My eddress is 404 Ninth Street her
16	o they hed taken a shortcut off from a	16	io Rewline, and I'm the welding contractor
17	two-track across a little bit of doby, they	17	for Merathon. I'd jost like to say I'm in
18	were buriad up to the freme, and thay	18	fevor of this. There ere a lot of femilies
19	unloaded the cempar, and a bunch of people	10	contrectora, operatore depanding on the wor
20	were trying to get out.	19	4 going forth. I hont in Nemeutter and the
21	I don't ass where we've hed eny	20	surrounding eres. I heven't seen a big
22	problem. Our drivers, myself, we try to		impact on the wildlife. I doe't think
23	elow down when we meet those paople. We	22	there's an impect on the wildlife. They us
24	must protect our gless and wiedshields as to	23 .	the grees on the right-of-weys se feed, and
25	protect theirs and be the good naighbor. So	24	they one the roads the road ditches as
	Prentler Reporting Service	25	grees. I just would like to say I'm in Frequer Reporting Service
	312 Wind Aufle Direct Gharmon, WY 20042 Frank bar cana		Charles M7 See

	21
1	favor of it, and I'd like to soe it go
2	4 through.
3	HEARING OFFICER KOTTER: Thank you.
4	I would like to introduce two BLM amployaes
5	that I missed earlier. I have John Johnson
6	from our state office. Kip Purinton, our
7	petroleum engineer in our Revlins office,
8	that hed come in, too.
9	If there are no further speakers, I
10	declare this public hearing closed as of
11	7:25 p.m. If eny of you have any further
12	questions, feel free to discuss then with
13	aither nembers of the BLM steff, Pete
14	Guarnamy, any of the contractors for the \$13
15	and Kirk Stainla. I'm sura all of you folka
16	are all quite well ecquaintad, but this will
17	conclude the formal hearing part of this.
18	We would open for any informal quastions
19	that you might have for these folks.
20	Thenk you very much for your
21	attandanca. We appreciate you taking your
22	time to come and participata in this
23	hearing. Thank you.
24	(Thereupon, the proceedings concluded at)
25	(7:25 p.m. Tuesday, Nev 24, 1999.)

R

Cheyname, WT 25001

ord c	of Proceedings/Rawlins, Page 22
Г	22
	REPORTER'S CERTIFICATE
2	
	State of Colorado)
	County of Larimer)
	I, Ross Herie Terlesky, Court
,	Reporter and Notery Public is and for the
	County of Lerimer, State of Colorado, haraby
,	cartify that the fects as atetad in tha
•	ception hereof ere true; that I did at the
1	time, data and plece es sat forth; that the
2	foregoing pages, numbered 1-21, inclusive,
	constitute a true, correct and complete
	transcript of my stanographic notes es
5	raduced to print under my direction by meena
6	of computar-manistad transcription.
,	I further certify that I am not
8	egent, attorney or counsel for any of the
9	perties bareto, nor an I interested in the
0	outcome thereof.
1	Dated this 4th day of Jane, 1995.
12	CK IPAK
3	1052 arie Curlesky
4	ROSE MARTE TERLESKT
5	Court Reporter
•	IOL DIL CLASH - ROSE MART TALLEST Guire Reporter Frentiar Reporting Service St Weakhold Reve St W

7.1.2.3 BLM Response to Public Meeting Comments

<u>Comment Response: All Commentors</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

<u>Comment Response 1: Frank Krough</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

<u>Comment Response 2: Doug Dowlin</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

<u>Comment Response 3: Art Ziegler</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

<u>Comment Response 4: Trent Morgan</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2 COMMENT LETTERS AND BLM RESPONSES

Ninety-four comment letters were received on the DEIS of each comment letter. Comment letters and BLM responses (Table 7.4), and Table 7.5 identifies the general subject matter are presented on the following pages.

Table 7.4 Comment Letters Received on the DEIS for the Continental Divide/Wamsutter II Natural Gas Project, Sweetwater and Carbon Counties, Wyoming, 1999.

Letter Number	Commentor	FEIS Section Number
1	Den Constantino, Sweetwater Economic Development Association	7.2.1.1
2	Larry DiBrito	7.2.2.1
3	Jo Suftko, President of Rock Springs Chamber of Commerce	7.2.3.1
4	Randy Shipman, People for the USA/Flaming Gorge Chapter	7.2.4.1
5	Greg Cody, National Park Service	7.2.5.1
6	James F. Devine, U.S. Geological Survey	7.2.6.1
7	Mike Wilkinson, Mike Wilkinson Trucking, Inc.	7.2.7.1
8	Les White, Flying J. Oil & Gas Inc.	7.2.8.1
9	Len H. Carpenter, Wildlife Management Institute	7.2.9.1
10	Moe Morrow	7.2.10.1
11	Dennis Brabec, President, People for the USA, State of Wyoming	7.2.11.1
12	T.D. Latham, Willies Dirt Service, Inc.	7.2.12.1
13	Jay R. Anderson, Schmid Oilfield Services, Inc.	7.2.13.1
14	Lyle E. Woelich	7.2.14.1
15	Sally Pedersen, Rocky Mountain Casing Crews, Inc.	7.2.15.1
16	Larry DiBrito	7.2.16.1
17	Larry DiBrito	7.2.17.1
18	T.N. Tipton, Marathon Oil Company	7.2.18.1
19	Art Zeiger, Carbon County Commissioner	7.2.19.1
20	Taylor and Juanita Myers	7.2.20.1
21	David R. Dalton	7.2.21.1
22	David Weber	7.2.22.1
23	David Dennis	7.2.23.1
24	Larry and LaVeta Pennock	7.2.24.1
25	Richard Ducharme, Wire Technology Inc.	7.2.25.1
26	Scott A. Pilch	7.2.26.1
27	Paul D. ? (signature illegible)	7.2.27.1
28	William D. Shade	7.2.28.1
29	Wes R. Handley	7.2.29.1
30	Frank Krugh	7.2.30.1
31	Carol M. Rosencranse	7.2.31.1
32	John K. Woods	7.2.32.1
33	Nathan Leonard	7.2.33.1
34	Jeff Briggs	7.2.34.1
35	Gerry Pence	7.2.35.1
36	Clifford C. Main	7.2.36.1
37	Chris Frost	7.2.37.1
38	Eric Wenzel	7.2.38.1
39	Brad Franks	7.2.39.1
40	Alan L. Ennis	7.2.40.1
41	Kendra Kalivas	7.2.41.1
42	Paul Kaliyas	7.2.42.1
43	David T. Johnson	7.2.43.1
44	Lloy Dene Greb	7.2.44.1
45	Caroline Trumbull	7.2.45.1

Table 7.4 (Continued)

Letter Number	Commentor	FEIS Section Number
46	Vicki L. Schoeber	7.2.46.1
47	Steve Olenick	7.2.47.1
48	Riley C. Skeen	7.2.48.1
49	Todd Fields	7.2.49.1
50	Richard Krupper	7.2.50.1
51	Robert C. Balsam	7.2.51.1
52	Michael S. Motsch	7.2.52.1
53	James Dale Malody	7.2.53.1
54	Jared Hall	7.2.54.1
55	Tom Fitzsimmons	7.2.55.1
56	Mark Fisher	7.2.56.1
57	Gary M. Lewis	7.2.57.1
58	Gene R. George, Agent for Yates Petroleum Corp.	7.2.58.1
59	Weatherford	7.2.59.1
60	Archie Johnson	7.2.60.1
61	Brad Funston	7.2.61.1
62	Heather Pence	7.2.62.1
63	Darlene McKnight	7.2.63.1
64	Charles Ohlson	7.2.64.1
65	Jon Salomonsen	7.2.65.1
66	Cynthia A. Truby	7.2.66.1
67	Eric Ward	7.2.67.1
68	Jerry L. Guthrie	7.2.68.1
69	Edward I. Hill	7.2.69.1
70	Jeffrey T. Harvey	7.2.70.1
71	Mark L. Dobson	7.2.71.1
72	Craig Barber	7.2.72.1
73	Tim Tipton	7.2.73.1
74	Joseph C. Icenogle	7.2.74.1
75	Sandy Puettman	7.2.75.1
76	William L.M. Wilsey	7.2.76.1
77	Mike Blevins	7.2.77.1
78	Dan Haman	7.2.78.1
79	Lyle Laverty, Regional Forester, U.S. Forest Service	7.2.79.1
80	Kirk Steinle, BP Amoco	7.2.80.1
81	Kim Floyd, Wyoming Wildlife Federation	7.2.81.1
82	David S. Petrie, Union Pacific Resources	7.2.82.1
83	Oliver D. Ihasz	7.2.83.1
84	Carolyn Byrd and Jeff Kessler, Wyoming Outdoor Council	7.2.84.1
85	Jeff Kessler, Biodiversity Associates	7.2.85.1
86	Marc W. Smith, Independent Petroleum Association of Mountain States	7.2.86.1
87	Conrad A. Lass, Office of Federal Land Policy, State of Wyoming	7.2.87.1
88	Bill Wichers, Wyoming Game and Fish Department	7.2.88.1
89	David S. Benner, State Engineer's Office	7.2.89.1
90	Lance Cook, Wyoming State Geological Survey	7.2.90.1
91	Darla Potter, Wyoming Department of Environmental Quality/Air Quality Division	7.2.91.1
92	Timothy R. Morris, Santa Fe Snyder Corporation	7.2.92.1
93	Cynthia Cody, U.S. Environmental Protection Agency	7.2.93.1
94	Michael M. Long, U.S. Fish and Wildlife Service	7.2.94.1

Table 7.5 General Subject Matter of DEIS Comment Letters, Continental Divide/Wamsutter II Project, Sweetwater and Carbon Counties, Wyoming.

etter lumber ¹	Air Quality	Geology/ Minerals/ Palcontology	Soils	Water Resources	Noise/ Odor	Transportation	Vegetation	Wildlife/ Fisherics	TEC&SC ²	Cultural Resources	Socioeconomics	Livestock/ Grazing	Recreation	Visual Resources	Hazardous Materials	Cumulative Impacts
1											х					
2								x						x		
3											x					
4	x										x					
5																
6		x														
7											x					
8											х					
9				x	x			x	x							x
10											x					
11											x					
12											x					
13											x					
14											x					
15											x					
16												х	x	x		
17												x	x	x		
18	x	х	х	x	х	x	x	х	х	х	x	x	x	x	x	
19						x	x		x		x	<u> </u>	<u> </u>			
20				1							х	ļ	<u> </u>			
21											x	<u> </u>	<u> </u>			
22											x	<u> </u>				
23											x	<u> </u>				
24											х					
25											x					
26											x	<u> </u>				
27								x			x					

7-18

Table 7.5 (Continued)

							Ge	neral Subject	Matter of Co	mment Letter						
Letter Number ¹	Air Quality	Geology/ Minerals/ Paleontology	Soils	Water Resources	Noise/ Odor	Transportation	Vegetation	Wildlife/ Fisherics	TEC&SC ²	Cultural Resources	Socioeconomics	Livestock/ Grazing	Recreation	Visual Resources	Hazardous Materials	Cumulative Impacts
29				1				x			x					
30	x															
31											x					
32											x					
33	x															
34								x								
35											x					
36											x					
37											x					
38											x					
39											x					
40											x					
41											x					
42											x					
43											x					
44											х					
45											x					
46											x					
47	x							x			x					
48	x							x			x					
49				1							x					
50											x					
51	x															
52								x								
53											x					
54				1							x		1			

Table 7.5	(Continued)
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							Ge	neral Subject	Matter of Co	mment Letter						
etter Jumber ¹	Air Quality	Geology/ Minerals/ Paleontology	Soils	Water Resources	Noise/ Odor	Transportation	Vegetation	Wildlife/ Fisherics	TEC&SC ²	Cultural Resources	Socioeconomics	Livestock/ Grazing	Recreation	Visual Resources	Hazardous Materials	Cumulative Impacts
55											х					
56											х					
57	x										х	L	<u> </u>			
58	x	x	x	x	x	x	x	x		x				x		
59											x					
60	x							x	x		x					
61											x					
62											x					
63	1			1							x					
64											x					
65	x			1							x					
66	1				1			x								
67	x			1	1			x	[x		
68	-			1							x					
69	-										x				L	
70	1			1							x					
71	x			1				x	1		x					
72	-			1	1									[
73					1						x					
74	x	1	1		1			x			x					
75	1		1		1			x			x					
76	x				1	1		x			x					
77					1	x										
78	1		1		1	1			1		x			1		
79	x	1	1		1	1	1		1					1		
80	x	x	х	x	x	x	x	x	x	x	x	x		x	x	х
81	x			1	x			x	x				x	x		x
82	x		1		1			1	1		x	1	1			

Table 7.5 (Continued)

							Ge	neral Subject	Matter of Co	mment Letter						
Letter Number ¹	Air Quality	Geology/ Minerals/ Palcontology	Soils	Water Resources	Noise/ Odor	Transportation	Vegetation	Wildlife/ Fisherics	TEC&SC ²	Cultural Resources	Sociocconomics	Livestock/ Grazing	Recreation	Visual Resources	Hazardous Materials	Cumulative Impacts
83	x													x		
84	x			x	x			x	x	x		х	x	x		х
85				х		x	х	х	x				x	x		х
86	x										x					
87	x	x						x			х					
88				x	х			х	х							х
89				x												
90		x														
91	x															
92	x							x								x
93	x															x
94	1			x				x	x							x

Picase refer to Table 7.4 for commentor name and FEIS section number. TEC&SC = Threatened, Endangered, Candidate and Species of Concern. 1

2

7-22

7.2.1.1 Letter 1 - Den Constantino, Sweetwater Economic Development Association SWEETWATER ECONOMIC DEVELOPMENT ASSOCIATION SWEEDA	722.1 Letter 2 - Larry DiBrito 59/5 W 5 9 ST CHICAGO / L
20 Sau Jian Not Secury Transa (2000) 20 Monte - 1 No 1997 - 1 No 1997 - 1	ho (c. 38 RECEIVED
Mev 27. 1999	
Clare Miller Rawlins Field Office Bureau of Land Menagement	llen sri
P. O. Box 2407 Rawlina, Wyoming 82301 Dear Mr. Mäler;	- We must not go to fast . we
The Board of Directors of the Sweetwater Economic Development Association would like to volos its support for the proceed attain in the Draft Environment of the second second based of the Second Second Director II Haurel Gar Program Responsible development of our natural resources in the proceed and reversers the bife/blood of book Carbon and Sweetwater Courty. The tables	- most tot our time set to some with
and the employment provided by the project will help maintain a stronger economic base. We are controtable with the analysis of impact from both socio-economic and environmental issues, and urge the project more forward.	1 20t
Sincerety, And alter to Den Costante	- Please for tills to some - Williamse Wonders Hiton 2015 - danke Willife To
Den Costantino Director	The In Two gas are cool was mult go to NO, SD, OREGON
JUN - 1 1899	OKLAHMA UTAH KEARASKA TEXAAH OKLAHMA TEXAS KASHIGGTON TO M
Buestwater County	there BLA LAND and all order the USA

7.2.1.2 Letter 1 Comment Response

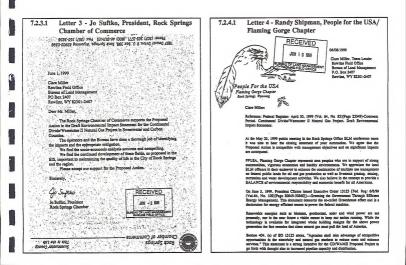
Letter 2 - Larry DiBrito, Page 2 pl-0 4/00 not In in to Pa IEI ASTA to ENGRY GARBGE SLUGE wyoning no PLEASE Rim INERS 1.100 ACT Di Brito P and will 2 and this

7.2.2.2 Letter 2 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

<u>Comment Response 1</u> - The BLM believes that the proposed project provides clean energy to meet the nation's needs while giving adequate protection to environmental values. The BLM is mandated by law to make federal energy resources available, as well as to protect the environment.

7.2.3.2 Letter 3 Comment Response



Letter 4 - Randy Shinman, People for the USA/Flaming Gorge Chapter, Page 2

Western Wyoming Community College-Archeology Department for the most part is stif-sufficient. Most of their operations capital is derived from the oil and gas

Swetrwater County property axes paid in Fland Year 1988 tonket 579,405,274.65. Of the total amount paid, 30 load comprision combined 23.328.78 or 856,146.393.36. Tab List, (tatachol) we obtained from the Wearwater County Transart: Of the total paid by those on the smachel list, shout 658 of the nomine go to all Swettwater county paids antional. Smachel and index of the Should Should 10. Tab figure a should 658 and Should District 2 about 708. Total yearwater hours they far hand the should never should be the WHC-Deven columns.

The Operators bisocical use of public lands in this area is admirable as relates to the environment. The CDFWAM If project runs has by tradition been an oil and gas area. There does not appear to be excessive routis and is none languages the road structure is such that interating bit may be as impared than planned.

Summary: The inducivalities states must address more stringently to the Mentmal Promotol and Table VI of the Class Air Art Amendments of 1990. This Art and Promotol with concellutus a higher demand for statesting are to most our delignizing over the sext 20 years. In conjunction with the increased demands as a result of the Class Air Art. summaring and and projentions delignibus is that plays of the state most must be on Ban.

The Public's interest and the <u>Mational security</u> are better served by an abundance of fasts for energy. It takes energy to build achools, fight wars and keep the lights on in the halls of Congress.

PFUSA, Flaming Gorge Chapter looks forward to working with the BLM. Thank you.

Randy Shipman -President

- Phone: Work 307-362-8345 Home 307-382-8107

PFUSA-Flaming Gorge Chapter P.O. Box 1063 Rock Springs, WY 82902-1063

Enc: School Dist. No. 1, 1C, 2 and WWCC

SWEETWATER COUNTY TOP 30 TAXPAYERS	AYERS - TAX YEAR 1998	
COMPANY	TAXES PAID	% OF TOTAL
Amoco Production & Pipeline	\$ 7,870,055.52	9.9113%
FMC	\$ 7,608,291.60	9.5816%
UP Resources	\$ 5,786,692.62	7.2875%
Solvay Minerals	\$ 5,439,345.00	6.8501%
General Chemical Corporation	\$ 4,624,496.20	5.8239%
OCI	\$ 4,422,749.50	5.5 698%
Bridger Coal	\$ 4,408,798.28	5.5523%
Pacificorp	\$ 3,914,583.64	4.9299%
TG Soda Ash, Inc.	\$ 2,959,346.52	3.7269%
Wexpro	\$ 2,241,903.82	2.8234%
Texaco	\$ 1,924,009.80	2.4230%
Cabot Oll & Gas Production	\$ 1,828,712.38	2.3030%
Black Butte Coal	\$ 1,794,274.66	2.2596%
TBI Exploration	\$ 1,276,246.20	1.6073%
Idaho Power	\$ 1,138,765.00	1.4341%
Celsius Energy Company	\$ 822,033.08	1.0352%
UP Raltroad	s 769,760.80	0.9694%
Marathon Oli	\$ 739,582.44	0.9314%
Questar Pipeline	\$ 696,354.28	0.8770%
UMC Petroleum	\$ 609,217.12	0.7672%
CIG	\$ 550,470.48	0.6932%
HS Resources	\$ \$21,431.82	0.6567%
Snyder Oll	\$ 490,666.40	0.6179%
Church & Dwight	\$ 464,309.22	0.5847%
SF Phosphates	\$ 457,470.48	0.5761%
Abraxus Petroleum	\$ 452,221.34	0.5695%
Mountain Gas Resources	\$ 446,535.56	0.5624%
Exxon	\$ 424,006.94	0.5340%
Hunt OII	\$ 368,412.00	0.4640%
Williams Gas Processing	\$ 345,550.66	0.4604%
TOTAL	\$ 65,416,293.36	82.3828%
TOTAL TAVES BAID IN OUTSTRATTS COUNTY	- TO LOC 021 1	700000 001

	i Phe		/	997-98		
Cold A	C2012-0439		District # 1	Sweetwater Cour	y JUN 1 0 199	On Dan My 10,
ders er	dia mpart si	on belance with the sand of the Figu	un reported an dia ganda separa persona la	word to select division. Justicely space	RAWLINS FIELD OF	CENENT PRANT
			COMPATY TRULAS	INSULT REPORTING FORM	RAWLINS FIELD OF	ICE
Line	Code		ten			Arround
млянов	2,010 (04	TITY - LOCAL SCHOOL DIS	TAKT		•	
1	•	District Property Tes (25 (RLA), and W.S. 31-13-3	mills weißed 20 mills ann-meißed) (dere 1 (dig	property tox asserved after June	30, 10011(W.K. 31-13-002(+35)(-4) e	
		Canvat	11,857,953.38	Pres Dellaqueos	189,499.46	12,047,452.8
,		District Property Tas(25) (\$XA), and W.8> 21-13-	nills andded, 30 adds non-unifedigions. 113(4).	property assussed poles to July 1.	199111W.8.21-13-1031-21-3A3-0	
		Special	3,753.50	Referent	4,467.67	
		Optional I and	150.13	Istant	178.69	
		Veter2 mill		Internet		
		Maint, 1 and	64.74	Internal	78.66	
	1	Maist 3 mill	1	Interest		8,713.35
,		Dimba Property Test25 - 301(0)	ulife or 30 milling pold from the county pr	neral find paraset to the tex del	iresi pervidere man W.S. 28-3-	
		Conset 3 mill				1
4	8113		of 3 mill operations key (W.S. 21-13-40	21+X2241 or (\$1X\$1)		
		Corrunt 3 mill	1,423,259.85	Part dellaquent		
	·	Veter 3 mill	11,729.71	Paut dallaquant ept. 1	7,580.62	1,442,570.18
,	41113		Mind Genicoly (W.R.11-13-113(x3.13)			
6	61114		aided districts) paid from the county gen		iesa under W.S. 39-3-301(0).	
,	8013		all existences key (W.S. 31-13-102)			
		Correct 3 coli	1,423,259.87	Port delinguest		
		Voter 2 will	1	Past delinquest spi. 3	7,580.62	1,430,840.49
8	81136	Motor vehicle registration (
		Speciel	1,013,703.51	Maint 3 mill	121,644.43	
		Optional 3 mill	121,644.43			1,256,992.37
-	81130	Car company lears.				
		Special	54,131.45	Maint 3 mill	6,495.78	
16	81140	Optional 3 mill	6,495.78		I	67,123.01
16	81140	Penalties and interest on de			1	
		Cost. Special	8,409.12	Deling, Opt. 1 mill	1,129.69	
		Core: Opt 3 mill Dallas, Epscial	1,008.72	Deling Model. 2 mill		
		Dollary Operated	28,246.76	Deling Voter 3 mill	914.01	
u I	11140		1,129.70 2% miltransional (W.S. 21-12-103)	Corp. Maint. 3 mill	1,009.14	41,847.14
-	81170		foral Services (% will maximum) (W.S.	1.30.1004.01		
10	81171		tional Services(3 mill mardema) (W.S. 3			
H	80100	Other (identify)				
_		Veto Ex. Special	11,074.03	Reard core opt Judi	64.03	
	1	Veta Ex. Opt 3 mill	1,328.89	Restal care special	533.60	
		Vets maint. 3 mill	1,328,89	Restel cars eraint, 3 mill	64.03	
		Pressio fin special	56.660.80	Mabile og Special.		
		Presents firs opt 3 mill	6,799,29	Hobile og. Opt 3 mill		1
		Prevent for maint. 3 mill	6,799.29	tishile maint 3 mill		
		Trahm opt. 3 mill	273.52			
		Teshes special	2,278.88			
Ia		Term exist. 3 will TOTAL LOCAL (flow of the	273.52	1		87,478.77
		TOTAL LOCAL (Bess of Br	en I Den 140			6,383,018.19

Letter 4 - Randy Shipman, People for the USA/Flaming Gorge Chapter, Attachment 2, Page 1

LINE						
	000	1	fre			ANOUNT ,
35	8159	Internit second on athord dis		<u> </u>		ANCONT
	-	NOW seeded	38,162.47	Auto fand special	19,998.33	-
		NOW opt. 3 will	4,579.47	Auto fand opt 3 mill	2,399.80	-1
		HOW apt. Maint. 3 mill	4,188.39	Anto Send maint 3 mill	2,399.80	-1
		NOW 6 mill	10,943.94	Anto Seed & mill	4,418,07	-
		NOW fines	2,754.10		4,410.07	-
			ED ON SCHOOL DISTRICT FUNDS		L	89,844.37
AUTICOD	LIZING EN	TTY-COUNTY				09,044.37
			an (6 mills) (from property managed affe			
		Cuesal	3,935,264.61	Part delegent	52,579.15	
10	12110		an (Smille) (Done property assessed price			3,987,843.7
	1 4110	Pre delinquest		Interest		-
	T RIN		4,968.09 mc(8 mills) paid from county proceed for		1,678.04	6,646.1
20	10120	Motor valids registerion fee		and presenter to the tax delevel p	revision under W.S. 24-3-301(C	
1 11						223,161.10
. 11	82130	Cor company set				10,380.3
11	83840	Perchise and interact on delive		,,		_
	-	Conveal	1,450.37	Delinquest	8,511.43	9,961.8
20	8150	Place and Robitscop				447,979.2
34	63168	Ferrel mourve fine				336.0
25	82199	Other (identify)				-
		Vate encouge	2,568.27	Rental care	125.73	
		Process See	13,352.12	Taber	410.94	
		Mabilu equipment				16,457.00
25		TOTAL COUNTY OUN OF	LINIIS (3-35)			4,702,765.5
AUTHO	RIZINO EN	THY-STATE				
27	1000	Trylor grazing firm				1
28	11110	Other (Mustily)				
29		TOTAL STATE (sum of lines				
20			(mm of fines \$5,36,36 and \$5) + 3			
						22,563,394.80
		new end rafheding boad innew of	could be reported on this from. Lovies as	ad payments for refunded (decay	and) band lenses should not be re	
4.	2000		TIEM			AMOUNT
	ENT PRVE					
н	11200	Levy for boad and anytica				0.00
						0.00
н	11200	Levy for boad and anytica				
n u	11200	Levy for board and any for Levy for board interest	NJE3 (sum of first 33 thry j			0.00
n n n	11200	Levy for boad ordenption Levy for boad interest Other (Munify) TOTAL BONDED DEET SEVE	20123 (sum of lines 33 (km j			0.00
11 22 24 24 24 24 24 24 24 24 24 24 24 24	88200 81200	Locy for bood redemption Locy for bood interest Other (identify) TOTAL BONDED DEBT SEVE DITURES	20053 (som of Gase 33 days j			0.00
11 22 24 24 24 24 24 24 24 24 24 24 24 24	81200 81200 81200 81200 81200	Log for boat releases Law for boat interest Odw (Anniby) TOTAL BOADED DEAT SEVE DITURES Payments on boat principal	20,83 (son of Goes 3) the j			0.00
11 22 23 24 24 24 24 24 24 24 24 24 24 24 24 24	88200 81200	Lary for board references Lary for board interest Other (Annully) TOTAL BOARDED DEET SEVE DITURES Payments on board principal Payments on board principal				0.00 0.00 989,408.31 398,358.35
31 22 23 24 24 24 24 24 24 24 24 24 24 24 24 24	81200 81200 917 EX P22 6100 6200	Levy for band indexpion Levy for band interest Other (density) TOTAL DONDED DEBT SEVY DITIVEDS Payments on band principal Payments on band principal Payments on band principal TOTAL DORTHED DEBTT SEVY	DHOITURES			0.00 0.00 989,408.31 398,358.35 1,387,766.66
31 32 30 34 34 35 35 35 37 39 39	81200 81200 81200 81200 6100 6100	Levy for band indexpion Levy for band interest Other (density) TOTAL DONDED DEBT SEVY DITIVEDS Payments on band principal Payments on band principal Payments on band principal TOTAL DORTHED DEBTT SEVY	DHOITURES 1 anomat mail data Backs source received di	in wheel Earlin and for upo		0.00 0.00 989,408.31 398,358.35 1,387,766.66
31 32 33 34 34 35 35 35 35 37 37 37 38 37 37 38 37 37 38 37 37 38 38 37 38 38 37 38 38 38 39 39 39 39 39 39 39 39 39 39 39 39 39	81200 11200 0017 EXP2P 6100 6300 00000	Levy for band indusption Levy for band interest Other (Merrilg) TOTAL BORDED DEET SEVE DITURES Payments on band principal Payments on band principal TOTAL DORDED DEET SUP 31, 21-15-181, we sered to know th	DHOITURES	ion wheel Carina and bu case	uer and data these fields wave pai	0.00 0.00 989,408.31 398,358.35 1,387,766.66 Mon the didt service.
31 32 33 34 44 450 b b 34 35 35 36 37 37 38 38 39	81200 11200 0017 EXP2P 6100 6300 00000	Lery for bond internet Lery for bond internet Other (Browlig) TOTAL BORDED DEST SEXY DUTUELS Payments on bond principal Payments on bond principal Payments on bond principal Regents on bond bitmen DUTAL DORTHED BERT SEXT STALL VIEW OF SEXT	DHOITURES 1 anomat mail data Backs source received di	va skal föräs od for upp		0.00 0.00 989,408.31 398,358.35 1,387,766.66
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31 32 33 34 34 35 35 35 35 37 39 38 39 39 39 39 39 39 39 39 39 39 39 39 39	HE300 HE300 HE300 HEAT EXTP27 HEAT EXTP27	Lerg for hand redundance Lerg for hand releases Own (Bandly) 10/FAL BORDED DEET ZEY DYNARE AND AND AND AND AND Payments on hand pelangka Payments on hand pelangka Payments on hand pelangka Payments on hand pelangka Payments and an annu Annu TOTAL DOREDD DEETE DEFT DEFT DEFT DEFT Payments and and Balance TOTAL DOREDD DEETE DEFT	XXXIIVES a summe and data back many manimal & 19364 anno of my bank hand make dia sedas (24 - 25 any bank hand make dia sedas (24 - 25)	3-311 to 18-13-3313 by and added do	Dallig Dalig inter Gy sum beijnim dag int	0.00 0.00 0.00 989,408.31 398,358.35 1,387,766.66 din to defermion assemm 0.00 0.00 0.00
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, 0,04 m			(District # 1)	Sweetwater Cour		9
					BUREAU OF LAND MAN	AGEMENT
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			COLIMPY TREAS	BUT I REPORTING FORM		
ine .	Ceda		hn			1
UTHOR	UNO EN	TTY - LOCAL SCHOOL DIST				Anthen
1	-					
			mills saided 30 mills are underl) (been 1-640	property and additione lines place	A BAINS H-D-BOARDAN	
		Cerrent	1,516,437.13	Peet Defingeant	876.62	1,517,313.75
,	8333	District Property Tau(35 at 192(A), and Wills 31-13-3	alls willed, 20 mills son-asidel (Grav) 13(4)	property assessed prior to July 1,	1001) (W.S. 31-13-103(+28" EV] or	
-		Special	10.92	Internet	11.09	
		Optional 2 mill	.44	Interest	.44	- 1
		Voted mill	.88	buenet	.88	- 1
		Hsist 1 mill	.44	Interest	.44	7 /
		Maint 3 mill	.44	. Internet	.44	26.41
3		Claster Property Ter(23 m 301(0)	ills or 20 mills) pold from the eccenty get	send fund pressent to the tax det	krad providens waser W.S. 29-3-	
	· · · ·	Current 3 mail	1	T	T	- 1
4	4113		d 3 mill openations keep ("If S. 21-13-102	satisfi e (fait)		1
		Corout 3 mill	181,959.70	Post dellaquest	1	- 1
		Voter 2 mill	69.79	Peri dalimpani opi. 1	34.85	182,064.34
3	100	Tubles key (3 mill non-us	Last Conseq (W.S.31-13-1420 383(1)			1000000
	8(1)4		Ked districts) paid from the county good		ines ander W.S. 29-3-301(D.	
,	8115	Add 1 Board opproved 3 a				
		Corrort 3 avill	181,959.70	Post delingent	1	
		Veter 2 mill	69.79	Post dellaquest ept. 1	34.85	182,064.34
	\$1120	Motor which registertion fo				
-1-		Special	132.06	Maint 3 mill	15.84	
		Optional 3 mill	15,84	1	17.04	163.74
,1	89126	Car company tunos.				105174
		Special	1	Maint 3 mill	1	1
		Optional 3 mill				
	81140	Panables and interest on deli	in the second			
		Can, Special	1.22	Delog Opt 1 mill	9.15	
		Can. Opt. 3 mill	.14	Deling Haint 3 mill	18.31	
		Dallag Special	228.75	Defing Vator 3 mill	18.31	
		Duling Maint, 1 mill	9.14	Cov. Maint 3 mill	.14	285.16
	81500	Versionsh Tamianh Adult (2	14 mille maximme (W.S. 30-13-183).			
12	81170	Board of Cooperative Educat	and Services (is mill mechanic) (17.5.3	1-20-109(x2)		60,848.61
13	88 979	Board of Cooperative Education	coal Service (2 mill madmare) (W.S. 31	-25-130(1))		
н	88 990	Other (identify)				
		Vats Ex. Special	51.75	Rootal and opt Justi	.26	
	.	Vera Ex. Opr 3 mill	6.21	Round cars special	2.15	
	1	Vata maint, 3 mill	6.21	Restol cars qualist, 3 mill	.26	
		Precete fes special	229.40	bishila og Apsend,		1
		Provate Six age 3 mill	27.53	Sånbär og Opt 3 mill		
		Process for major, 3 mill	27.53	Stohle moint, J mill		
	1	Teshn opt, 3 mill	2.80			
		Trahes apocial	23.26			
		Trun moint. 3 will	2.80			380.16
	- 1	TOTAL LOCAL (flors of line	a t thre 14)			1,943,146.51
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Internati escand en school distaid	i fanda			
NOW special	3,318.46	Aren fired special	3.00	1
NOW opt. 2 mill	398.21	Ante find opt 3 mill		-
HOW opt. Malet. 3 mill	395.21	Arts feed maint. 3 mill	.37	
NOW 5 mill	43.39	Aum fired 6 mill	17.51	
NOW Enes	10.92			4,190.44
TOTAL INTEREST EARNED	ON SCHOOL DISTRICT FUND			
ITY-COUNTY				
County wide acheol property las	(I calle) (from preparty machined al	ter Jaser 50, 1991) (W.S. 21-13-201	1	
Concei	15,506,73	Peel dellaqueat	204 02	15.710.75
County wide achosi property see	(facility) (from property assessed pric	e as July 1, 1991 (W.1.21-13-301)		
Pre dellaquest	19.70	Betarad .	6,67	26.37
County wide achoul property tax	15 mills) peid from eventy general f	and purment to the tax defaund peop	visions under W.S. 29-3 Joint	
Mean vehicle registration fees				884.82
Car company ins		e		41.15
Penalties and interest on definque	al leves			
Crewel	5.75	Delisqueet	33.75	39.50
Fines and forfeitures		ter site second s		1,776.05
Faret course fees				5.60
Other (identify)				
Vata assessed	10.18	Restal cars	.50	1
Procession	52.94	Trahees	1.63	1
Mebils systemet				65.25
	803 03-39			18,549.49
Carder searches from	· · · · · · · · · · · · · · · · · · ·			1
Other (Musily)				
	10			
TOTAL OF ALL ENTITIES (P	a of Rose 15,16,24 and 391			1,965,886.44
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and and refered ag bood insure about		of payments for collected (deceased	i) bond interes should not be re	AMOUNT
	nea			AMOUNT
				0.00
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non u de	rantes della	a particule with the land of the Ages	a shared as prompty part in specify	bread to actual diselate. Sochols wiresen	BUBEAU DE LAND MAIN RAWLINS FIELD O	FERCE
			COUNTY TREAS	RURARY & REPORTENC FORM		
Ling	Code	1				
		1	ben			Amount
_	-	TTY - LOCAL SCHOOL DIS			•	
	1 100	District Property Tax (25 GEAL and W.S. 31-12-3	edi(helies see shin 00 helies shine I-(4))	m property lax assessed after June	30, 1991) (W.S. 21-13-002(+)(KA) -	
		Owner	13,399,849.74	Peri Dellaquest	1	- ·
		Note Bauge Torth			172.880.41	13.572.73
		18XAL and W.S. 21-13-2	allis nailed, 20 mills ens an ided given 11 3(4).	a property assessed price to July 1,	***********************	
		Special	30,060,96	Interest	6,962.25	
		Optional 1 milt	1,202.50	Internet	278.50	7
		Veter2 mill		Interest		1
		Maint, 2 mill	1,197.36	Interest	270.89	1
		Molet. 5 mill		laterant		39,972
,	-	Clieblet Property Tax(25 a	alls or 20 mills) poid from the ecuary p	preared fload personnel to the tax det	iensi providesa unaer W.S. 38-3-	1 33,972
		Soliji.	1			-
	1 400		1 60 978.03			
	1 400		of 3 mill eperations lovy (W.S. 21-13-1			-
		Correct 3 mill	1,602,978.03	Part dataquest	208.53	
-		Veter 3 milt	1	Part dellageest apt. 1	6,706.67	1.609.893
	4115		alled districtly (01.8.21-63.103(a)(01))			
	8114		illed districts) pold from the sensory get		ines mader W.S. 39-3-301(0).	
,	8115		all maintenances looy (W.S. 21-13-102)			
		Correct 3 mill	541.678.98	Past delaquest	208,53	
-		Votor 2 mill	1	Pert dellegrest opt. 1	6,706.67	548,594.
1	81130	Motor vablate registration i	los .			
		Special	504,786.79	Mulat, 3 cult	20.191.47	
		Optional 3 milt	60,574.41			585,552.
	81130	Car company takes.				
						1
		Special	16,507,37	Maint J will	660.30	1
			16,507,37	Maint 3 mill	650.30	19 148
10	11140	Special	1,980.88	Main: 3 mB	650.30	19.148.
IE	11140	Sporial Optional 3 cull	1,960.88			19.148.
IE	11140	Special Optional 3 coll Penables and Internet on del	1,980.88	Maise, 3 mB Define, Opt 1 mB Define, Maise, 3 mB	650.30	
it	11140	Special Optional 3 cult Penahlan and Interest on del Cam. Special Cam. Opt. 3 milt	1,960.86 Inpunt toos 3,131.55 414.53	Dellog, Opt 1 mil? Dellog, State, 2 mil?		
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Letter 4 - Randy Shipman, People for the USA/Flaming Gorge Chapter, Attachment 2, Page 5

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Letter 4 - Randy Shipman, People for the USA/Flaming Gorge Chapter, Attachment 2, Page 7

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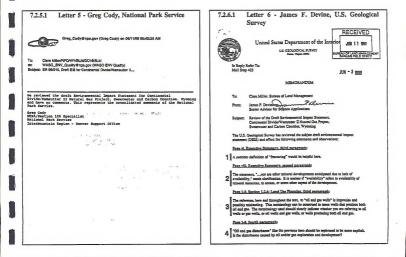
Letter 4 - Randy Shipman, People for the USA/Flaming Gorge Chapter, Attachment 2, Page 8

7.2.4.2 Letter 4 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS. The information you have provided regarding the economic importance of energy resources to Sweetwater County, the need for clean energy sources, and the success of multiple use of the public lands is very much appreciated and has been considered during the preparation of this EIS.

7.2.5.2 Letter 5 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments.



Letter 6 - James F. Devine, U.S. Geological Survey, Page 2	lc w
Page 2-16. Section 2.6.3: Well Pad Construction:	S
5 2.6 acres for a well pad scens unusually large.	C
Page 2-23, Section 2.6,6: Production Facilities, last parsgraph:	in
6 A sentence explaining the term "christmas tree" would be helpful.	ct
Page 3-11. Section 3.1.4.1: Minerel Resources, third paragraph:	CI
The abbreviation for units of gas and oil volumes needs to be consistent. It is confusing to mix mmef (million cubic feet) of gas and mbo (million berrais of oil), because the measurement unit 'm 'oy definition means thousand. Million barrels of oil should be indicated by mmbo throughout the text.	C oi
Page 3-11. Jourth caragraph:	c
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Page 3-14. Figure 3.2:	p
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Copy To: Director, Office of Environmental Policy and Compliance	

7.2.6.2 Letter 6 Comment Response

7-30

Comment Response: Entire Letter - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

Comment Response 1 - An explanation of fracturing appears in DEIS Section 2.6.5, page 2-23. Definitions are not provided in the Executive Summary, which is meant to be brief.

Comment Response 2 - The sentence has been modified to read, "There are currently no mineral development actions proposed for the CD/WIIPA other than oil and gas development and small-scale gravel/aggregate mining operations, nor are there likely to be any proposals to mine coal, oil shale, or locatable minerals." This is explained more fully in DEIS Section 3.1.4.1, pages 3-16 and 3-17.

Comment Response 3 - The phrase "oil and gas wells" as used in DEIS Section 1.2.4 refers to oil wells and gas wells. However, since this project primarily involves the development of natural gas resources and oil (condensate) is also produced with the gas, most wells proposed for development can be considered as producing both oil and gas.

Comment Response 4 - The term "oil and gas disturbance" generally refers to the area disturbed by oil and gas exploration and development.

comment Response 5 - The 2.6 acres required for each well ocation is not unusually large. Please note that all but 0.8 acres ould be reclaimed once the well is ready to produce (see DEIS ection 2.6.6 on page 2-23).

comment Response 6 - The term "Christmas tree" is described DEIS Section 2.6.6, page 2-23: "A series of valves designed to ontrol pressures and regulate flows from the well (i.e., the hristmas tree) would be installed at the well head."

comment Response 7 - The abbreviation for million barrels of il has been changed to "mmbo" throughout the text.

Comment Response 8 - The annual CD/WIIPA production gures provided in the DEIS are presented only to give the eader an idea of the magnitude of development in the area. he values are for "approximate" production, which the BLM elieves is adequate for the purpose of this EIS. A more omplete reference is provided in DEIS Section 6.0. on age 6-10.

Comment Response 9 - The BLM believes that Figure 3.2 is dequate for this EIS. All pertinent information regarding foure 3.2 is provided on DEIS pages 3-11 and 3-16.

7.2.7.1 Letter 7 - Mike Wilkinson, Mike Wilkinson Trucking, Inc.

Mike Wilkinson Trucking, Inc. 281 Lester Da Rock Springs, WY \$2901

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are Miller swiins Field Office an of Land 1 E. WY \$2301-2407

Draft Environmental Impact Statement Continental Divide/Wamsutter II Natural Gas Proje

ar Mr. Miller;

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7.2.7.2 Letter 7 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.8.2 Letter 8 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

<u>Comment Response</u> 1 - Mitigation for actions taken in the CD/WIIPA would be those that are identified by Operators as project components, are specifically required by law, and/or are intended to prevent undue damage to surface and subsurface resources.

2.8.1 Letter 8 - Les White, Flying J Oil and Gas Inc.	7.2.9.1 Letter 9 - Len J. Carpenter, Wildlin
_	Management Institute
FLYING J OIL & GAS INC. 333 WEST CENTER STREET + NORTH SALT LAVE UTAH BASA PHONE (601) 3597700 FAX (801) 3597505	Wildlife Management Institute
June 14, 1999	Lan H. Capandar, Pall Standardstorm 2015 Gavery Drive + For Califac. Science 66238 Planet (174) 322-1029 + Heg (174) 320-4193 5.644 Standardstormaticstorm
	ROLLIN D. SPARROWE
Mr. Clare Miller Rewins Field Office	LONNIEL WILLIAMSON RECEIVED
Bureau of Land Management	RUCHARD E MICARE
P.O. Box 2407	JUN 2.1 1959
Rawlins, WY 82301-2407	June 17, 1999
Re: Draft Environmental Impact Statement	Clare Miller RAWLING FUNCTION BANKING FUNCTION
Continental Divids/Wamsutter II Natural Gas Project	Rawins Field Office, BLM P.O. Box 2607
Sweetwater and Carbon Counties, Wyoming	P.O. Box 2407 Rawlins, WY 82301-2407
Dear Mr. Miller.	Den, Mr. Miler:
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Flying J Oil & Gea Inc.	issue to be reconsidered. The institute urgest the Bureau to acknowledge and address our concerts on cumulative impacts and the increasing industrialization of Wycening public lands in
1 pi	the FEIS.
appropriate	2 The Institute is also concerned why the proposed action of the BLM (at lenst in rengelitude and density of wells) is always the proposal put forth by the developers. We wonder why the Bernau
Les Whith Senior Landman	ensent develop akernatives that would limit the magnitude of the proposed project. In that Dicks, the abstractions deal with iteration of matchess are disturbance per neutron. We find that the anthless area disturbed gat gat into the most important parameter to consider. We would suggest that and have been an ensert measure and deal to deal to expect the section.
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BLACTELLAR BLACTELLAR BLACTELLAR	habitata from increased industrialization is much more than simply the surface acres impasted.

Letter 9 - Len J. Carpenter, Wildlife Management Institute, Page 2 Continental Divide/Wamsutter II DEIS We also question the outright conclusion that the No Action Akemative would not be a visue alternative. We recognize that development could proceed on other land ownerships but believe that density of wells on fisheral land is the real issue at hand. It may well be, that we have reachthe level of development on many of these public lands in SW Wyoming that this alternative is the only vishle approach. We urge the Bureau to evaluate this option in the FEIS and simply not to dismiss it as is done in the DEIS. Given that the decision will be to approve this project, we suggest that the BLM should at least Universatis that declaration will be to approve this project, we suggest that the BLM should it least enforce Alternative A that imposes a 14-sero machinem surface distributions per foldently managed function. This alternative was developed by the BLM based on public, agency, and resource specialits concerts regarding potential impacts to sensitive resources from national gas field a developmenta and should be serioutly considered. In previous comments on these pr als, the Institute has nted on the need for effective In previous comments on these proposals, the Latitude has commented on the need for efficient biological methodring during the life of the projects. In this DEIS, we noise considerable verbinge directed to this issue. However, the lamitute questions the validity of the very peneral and basically assuments and monitoring proposed. It is our professional jagement that these efforts would only detect the most obvious extrements (IE absence of a species) and not be of R. Sparrowe, WMI The momenty and denote inclusion is proposed on the properties of the properties of the second secon It is stated on page 4-57 that "consulative impacts resulting from direct habitat loss for all big game herds are unknown, however, monitoring as identified in Appendix D would allow the BLM to determine if induce studies are required and whether further mitigations are necessary." The 7 Institute feis that the preponderance of knowledge and professional ophios indicates that this project will be destincted to be game opsizitions and to rely on fixture motioning to determine if mitigations are necessary is professionally bunkrupt! Now is the time to take mitigating steps to avoid the expected impacts! We reception that membring direct will take considerable fluct resources on themas of their general series doed way will accomplished biological accounting protocols in specific fluctuations and directed on general fluctuations and disclipted biological accounting protocols in specific fluctuations and directed on general fluctuations and their series and their series and their series of the monitoring is to be done, serious attention must be given to the design and conduc studies. This need is alluded to on page 4-56 and must be highlighted in the FEIS. The detrimental impacts on water quality from this projects that is acknowledged (page 4-35) must be zeriously considered. It is noticed with interver that the DEIS acknowledges in Table 3.8 that a cause of impaired stream segments within the project zeras in periodum activities. The 9 DEIS tends to dismiss these impacts. In an area where quality water is limited, farther losses of

Letter 9 - Len J. Carpenter, Wildlife Management Institute, Page 3

Continental Divide/Wansutter II DEIS

3 9 [] this resource must be prevented. If existing petroleum activities are impairing stream quality, whe will be the impact of increased petroleum activities?

Now we will present some specific comments on impacts to wildlife species and their habitats. The west-wide concern for the status of sage groupe prompts us to comment on the potential The west-wate contern for the status of sign groups prompts us to comment on the potenzial imports of this project on this important Wyoning native speeds. The large number of fails within the project area boundary (Map 4.7) eluciants this concern. Data on screnge of direct antifica disturbance in ange groups handinistis In Table 4.1 is indisciding. The Table indicates only 2.7 % of probable matring habits out of 571,000 total probable matring acres will be

only 2.7 % of probable metrics inhibits out of 271,000 total promose memning screte was one impraction. Knowing what we do about mange provem entrates in the orbeinful that the set of 1000 areas of visible metrics inhibits in the project stars. Much of the acreage is shready limited to may groups menticing use by bernock grading met dother scritbles. Therefore, the 2.7 % area estimated to be impacted is growthy low. The impact to may proves is one topic where 10 re, the 2.7 % density of wells and associated activities associated with this project is understand when DEIS. We are concerned about the increased noise levels, traffic patterns, and further habitat fragmentation that will result from this project. We urge the Bursan to Forceaden your evaluation of the potential impacts of the project on sage grouse

We are also assumed show that one respirated improves to the last Data Desard Respiration provides and the second data of the last Data Desard Des nd efforts must be taken to insure its long-term future

It is highly probable that the mountain plover will be listed as three The Tabley probable due the movember ploymer will be finded an dimensional by the UDFWG is due to way can of mercy. We give its metricure or consorts in give in the DES to tait appeade. Of we the the description of the movie of the description of the description of the description of the propert energy. Towards of the description of provide the description of the desc med by the USFWS in the

In summery, this DERS is like all previous NEPA documents dealing with all and gas developm on public lands in Wyoming. It appears that analyses are solvly genred to automation a proconselved outcome. Considering the large human and final outs of the NEPA processing this is indeed unfortunata. The suppring public and especially the nation's wildlift populations

Letter 9 - Len J. Carpenter, Wildlife Management Institute, Page 4

Cominental Divide/Warnsutter II DEIS

deserve better. Time is running out for many of Wyoming's wildlife resources. It is time that the Bureau stand up and coverise the stewardship responsibilities that Federal Law and Policy dictate. A revolution of the many issues raised in this letter in the FEIS would be a start.

Court - Corperter Len H. Carpenter

J. Baughman, Wyo G&F A. Pitrson, BLM

7.2.9.2 Letter 9 Comment Response

Comment Response: Entire Letter - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

Comment Response 1 - Cumulative impacts for all potentially affected resources are addressed in DEIS Chapter 4.0 (see specifically DEIS pages 4-3 to 4-8). Many resources are analyzed (cumulatively) on a broad scale (see DEIS Table 4.1 and Map 4.1).

Comment Response 2 - The Proposed Action is the proposal put forth by the Operators because it is their proposed development. The BLM does not make the initial proposal for development, as it is not in the business of recovering and marketing oil and gas resources. Rather, the BLM is charged with evaluating development proposals within the legal mandates of allowing mineral recovery while affording appropriate protection to the environment. The BLM and others, during scoping, propose alternatives to the Proposed Action, Reasonable alternatives, including the No Action Alternative, receive the same consideration as the Proposed Action,

Comment Response 3 - The BLM agrees that the impacts to wildlife are more than simply the surface acres impacted, and the DEIS addresses more than direct habitat disturbance (see DEIS Section 4.2.3). Well density, indirect effects, and surface disturbance are all related impacts to wildlife and all are addressed in this EIS.

<u>Comment Response 4</u> - There is no "outright conclusion that the No Action Alternative would not be a viable alternative" in the DELS. Rather, the various legal considerations regarding the choice of this alternative are discussed in DEIS Section 2.4. The last sentence of the section plainly states that this EIS will belp determine whether the proposed project meets any of the conditions that would allow selection of the No Action Alternative.

It is essential to recognize that no action does not mean that no oil and gas development activities would occur on federal lands. Briefly, the principal reasons for this include the following.

- No action means a continuation of existing management, which includes continued recovery of oil and gas resources as authorized by the existing RMPs.
- Private lands, which comprise more than half of the CD/WIPA, would likely be developed regardless of the decision issued by BLM for the project, and would likely result in the drainage of federal reserves. This would require the BLM to direct the lesse to drill and produce all wells necessary to protect the leased lands from drainage pursuant to 43 C-FR. 3100.
- All federal lands within the CD/WIIPA have been leased for oil and gas production or are available for lease. The area is rated as suitable for gas production in the GRRA and GDRA RMPs, and accelerated development of the area has been proposed.
- 4. To deny all oil and gas activity on a valid lease would constitute a breach of contract of an Operator's rights to conduct development activities on the leased lands. Authority for complete denial can be granted only by Congress, which can order the leases forfield subject to compensation. The BLM can only suspend the lease pursuant to Section 39 of the *Mineral Leasing Act* pending consultation with the Congress for a grant of authority to preclude drilling and provide compensation to the lessee.

Again, the DEIS does not preclude a decision to choose the No Action Alternative; rather, it provides information to determine whether such a decision would be the best decision. Every resource is evaluated under the No Action Alternative, as well as under the Proposed Action and other action alternatives.

<u>Comment Response 5</u> - The BLM will consider your comment during preparation of the ROD for this project.

<u>Comment Response</u> 6 - The BLM believes that the Wildlife Protection Plan, as presented in DEIS Appendix D, is adequate to monitor the wildlife species of greatest concern, and the species most likely to be affected by the proposed project. Area wildlife monitoring would be augmented from current efforts if the project is authorized, and much of the cost would be paid for by Operators. Furthermore, in the event that substantive adverse effects are noted during monitoring, the BLM in consultation with other agencies (e.g., WGPD, USFWS) may modify mitigation/protection measures.

<u>Comment Response 7</u> - There is no conclusive evidence that oil and gas development has had significant impacts to big game herds; however, the DEIS indicates that significant indirect

impacts could occur to big game herds even with the implementation of standard mitigation measures (see DEIS Section 4.2.3.1). Rather, big game numbers are regulated primarily by natural forces, especially the weather, and by harvest quotas set by the WGFD. The WGFD currently monitors the big game herds in the state and identifies factors that may be limiting. Pronghorn numbers, for instance, vary considerably from year to year and can usually be linked to climatic conditions or management decisions. Standard mitigations for big game would be implemented regardless of monitoring findings; however, additional mitigations may be developed and implemented based on monitoring results.

<u>Comment Response</u> 6 - Sec Comment Response 6, above. The BLM acknowledges that a considerable increase in the level of ffort would be required for implementation of the Wildlife Protection Plan; however, if the project is authorized, the BLM would be committed to plan implementation. Furthermore, because of the anticipated need for additional financial resources, a Cooperative Agreement among participants (e.g., Operators, BLM, USFWS) is being prepared.

<u>Comment Response 9</u> - The potential impacts of the project on water quality are considered in DEIS Section 4.1.7. All impacts are considered and mitigations would be implemented.

<u>Comment Response 10</u> - The determination that the CD/WIIPA contains 576,300 acres (as modified in this FEIS) of probable sage grouse nesting habitat in the Red Desert UGBMA is based on the best information available to the BLM and WGFD. If you have other contradictory data, we would appreciate receiving a copy of it. The DEIS does discuss the impacts of noise on sage grouse (see DEIS Section 42.3.2, page 4-59); however, precise determinations on the number of grouse that would be impacted, or the resultant impacts on sage grouse populations, are difficult to estimate accurately because such relationships are poorly understood. The BLM will require reasonable miligation measures believed to provide adequate protection to sage grouse populations. In addition, the EIS has been modified such that probable sage grouse nesting habitats are now considered as SRAs.

<u>Comment Response 11</u> - The BLM is under no obligation to prove that the proposed project would not impact the Red Desert pronghorn population; rather, we are obligated to take an objective look at the likely impacts to pronghorn, based in part on the impacts to the species from similar projects in Wyoming. There is no evidence that oil and gas projects have had significant impacts on herd units, and the BLM believes that the proposed project would not jeopardize the herd's long-term survival.

<u>Comment Response 12</u> - Impacts to, and mitigation for, mountain plover are adequately discussed in Section 4.2.5 and D-2.3.2.3 of the EIS.

Comment Response 13 - The DEIS states that, "In general, all prairie dog colonies on the CD/WIIPA would be avoided, where practical." No black-tailed prairie dog colonies occur on the CD/WIIPA.

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Letter 10 - Moe Morrow, Attac	chment 1	
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7.2.10.2 Letter 10 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an ELS. The information you have provided regarding the economic importance of energy resources to Sweetwater County, the need for clean energy sources, and the success of multiple use of the public lands are very much appreciated and have been considered during preparation of this ELS. Letter 11 - Dennis Brabec, President, People for the USA, State of Wyoming, Page 2

not just Sweetwater and Carbon Counties, as well as to the State of Wyoming in general and the Federal government.

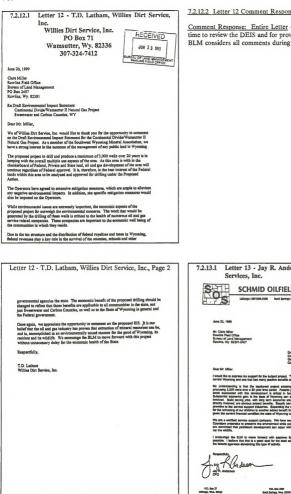
Once again, Wyoming People for the USA appreciates the opportunity to omment the proposed EIIS. The oil and gas industry has proven extraction of mineral exercise is accountiplied in an environmentally sound manner for the good of of Wyoming, its reaidents and its wildlife. We encourage the BLAB to move fibruard with largeiget without unnecessary dear for the occountiple health of the State.

President / Wyoming People for the USA

7.2.11.1 Letter 11 - Dennis Brabec, President, People for	
the USA. State of Wyoming	
Dennis J. Brabec, President	
People for the USA RECEIVED	
State of Wyoming	
DO Bon 41	
Big Piney, Wyoming \$3113	
Home (307) 276-3514 Work (307) 276-333	
RAWCING PIELD OFFICE	
June 22, 1999	
Class Miller	
Rawlins Field Office	
Bureau of Land Managment	
Rawlins, WY 82301-2407	
RE: DRAFT ENVIRONMENTAL IMPACT STATEMENT	
CONTINENTAL DIVIDE/WAMSUTTER 11 NATURAL GAS PROJECT SWEETWATER AND CARBON COUNTIES, WY	
SWEETWATER AND CARBON COUNTER WY	
Dear Mr. Miller,	
Wyoming People for the USA would like to thank you for the opportunity to	
comment on the draft Environmental Impact Statement for the Continental	
Divide/Warnsetter II Natural Gas Project. As the representative for numerous multiple	
use advocacy groups in Wyoming, we have a strong interest in the outcome of the management of any public lands in Wyoming.	
The proposed project to drill and produce a maximum of 3,000 wells over 20	
years is keeping with the overall multiple use aspects of the area. As this area is within the checkerboard of Federal, Private and State Land, oil and gas development of the area.	
will continue repardless of Federal approval. It is, therefore, in the best interest of the	
Federal lands within this area to be analyzed and approved for drilling under the	
Proposed Action.	
The Operators have agreed to extensive mitigation measures which are ample to	
alleviate any negative environmental impacts. In addition, site specific mitigation	
measures would also be imposed on the Operators.	
While environmental issues are extremely important, the economic aspects of the	
ernnosed project are of significant importance to the Arts and Wyoming. The work that	
would be generated by the drilling of these wells is critical to the health of numerous oil	
and gas service related companies. These comparise are important to the economics well-being of communities on which they reside.	
Due to tax structure and the distribution of federal royalties and taxes in	
Wyoming, federal revenues play a key role in the survival of the pounties, schools and	
other governmental agencies in the state. The economic benefit of the proposed drilling	
should be charged to reflect those benefits are applicable to all communities in the state,	

7.2.11.2 Letter 11 Comment Response





7.2.12.2 Letter 12 Comment Response

Comment Response: Entire Letter - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

Letter 13 - Jay R. Anderson, Schmid Oilfield

SCHMID OILFIELD SERVICES, INC. Lallarge (307)386-2508 hock Springs (507) 383-7618 Evention (307) 789-6325

Continental Divide Gas Project - Se

I would like to express my support for the subject project. This represents an important project for central Wyoming and one that has many positive banefits associated with IL

Intertuncting is that the capationed project encompasses the possibility of offling and the start 2.0.00 well are at 20 year time pands. Housing commence approve to first first near the start of the start of the start of the start of the start pands of the start pands well and any start pands and the start of the start pands of the start pands well address of the start of the start of the start pand the start pands well address pands the start of the start of the start pands well address pands the start of the start of the start pands well address pands the start of the start of the start pands and the start pands and the start of the start pand the start base and based to the start of the start the start not be and the start base the following of and obtains is moder address the start the start not be enclosed—start and the start pands and the start the start not be enclosed.

Held service support company. We have seen first hand the extensive efforts the Settike to preserve the environment while parturing oil and gas developments. We if the proteinum development can coord without herming methem the environment and an environment can coord without herming methem the environment of the proteinum development can coord without herming methem the environment of the proteinum development can coord without herming methem the environment and the set of the set of

the BLM to move forward with approval for the project as expectitously as is elieve that this is a good deal for the local communities, the state of Wyoming and pencies developing this type of activity.

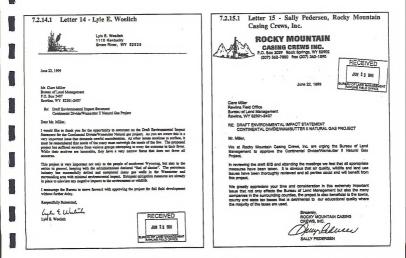
RECEIVED JUN 2 3 1999 AU OF LAND MANAGEME P.O. Box 813

7.2.13.2 Letter 13 Comment Response

time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7,2,14.2 Letter 14 Comment Response

Comment Response: Entire Letter - Thank you for taking the Comment Response: Entire Letter - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.



7-38

7.2.15.2 Letter 15 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

Letter 16 - Larry DiBrito, Page 2 RECEIVED JUN 25 (P) WAUNTHE TRED DESERT ADOBE TOWN DEVELES PLAY GROUND SLIG MONEY AS A PARK WYOMING GOING TO BE ONE HUGE WASTE LAND OF OIL WELLES, GAS WELLS : CORL MINES AND MINES IN A LOT UF PHATS OF THE STATE JUST ONE BY ONE .. share rele me all you can and please as The a new Paper , Whit 0. see and Jury Si Brito AND 26 1999

7.2.16.1 Letter 16 - Larry DiBrito RECEIVED 591545957 JUN 25 1959 CHICAGO ILL 60638 1 . . . 185 UREALI OF LAND MANAG AND A REAL PROPERTY. " " " ATAL CLARE MILLER ." "I'V THE PLAIN 3000 6-AS WEALES ARONS RAWLING to to ME MILLES OF ROLE SPRINGSO ON PHILLION 61, 200 MERE PRAJEST ARSA. youble Resour luthe disturbance OH 22.400 ACRESO ON THE AREA O BY POARS DIDE LINES FACILITIES + · PLEASE CUT THE PLAN IN HAVE . BELAUSE , MYONING WILL LONGE . I LOW PRICES NO TAXES 64 too PEACENT FOR BUSINESS THAT LESS FOR WYMING & JUST TAKE & LOOK WHIT WYIMING WILL GIVE UP. GO TO UTAH AND YOU CAN SEE WYOMING IN 30 YEARS SWEET WATERS COUNTY NEEDS OPEN PRINEE STOR CATTLE SHEEP LIVE STOLK FOR POUR FOOD . NEY BIG MONEY) FROM PEOPLE TO COME AND SEE

7.2.16.2 Letter 16 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS. Please also refer to FEIS Section 7.2.2. Comment Response 1.

7.2.17.1 Letter 17 - Larry DiBrito 5915W5957 CHICAGO, ICC 488 215 1959 60638 AU OF LAND MANAGEM DEDE SIR. 3000 CAS WELLS , OIL WEELS , COAL AINES IT is TO HOLE THIS NUST BE eut in HAVE . · by you inc it is conseine BIC MINEY . oil, CAS, COAL MINGING BECAUSE BUSINESS ARE PAYING THE SAME AS THEY DID 124 your Wyominy Wounders will be no more it this come to Pare 1 SAND DUNES BROARS TUSK 2 SEAN BOAT MIS & GRBEN ATS 3 WHITE MIS ORED OFSERT FLAT 4 RED DESERT BASIN & GREAT DIDOE The red least BOOSE TOWN DEVILES PLAT GROUND Letter 17 - Larry DiBrito, Page 2 RECEIVED 05 m. every SALAT ALLO DOLLA DOLLA rot Fin Wyoning sit -50 one 7 ono please sur some of Wyoming Wounders . Dear si please grazing land , and land forest la make more end save wat and forest and Dent please write back and me all you can 200 send me a news Please any thing you can Lowy Di Bits

7.2.17.2 Letter 17 Comment Response

Comment Response: Entire Letter - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS. Please also refer to FEIS Section 7.2.2.2, Comment Response 1,



Marshon Oil Company is "IN SUPPORT" of the Proposed Action of Fall Development as represented in the Draft Document. Upon review of the Impacts by Environmental Resource, Marshos submits the Bildwaing comments:

- 1. AIR QUALITY
 - A increase is Cranic and Managera AP biology and and the set at the set of the set of

 - Insignificant Determination for the Proposed Action. D. Air Quality Related Values amorphonic deposition (acid min) Marathoo is in agreement of the Insignificant Deterministion for the Proposed Action.

The Air Quality Modeling that was performed by the Air Quality Impact Assessment Team represented the umpart of technological elements in its methods of fact gathering and faul determinations. The issuance of Draft BIS was postpoord for sumerous months availing the Modeling results. Hopefully, the waiting period associated with the Modeling Analysis will

7-40

Letter 18 - T.N. Tipton, Marathon Oil Company, Page 2 Cisce Miller Bureau of Land Management June 23, 1995 Page 2

prove beneficial in avoiding future delays, since the reported findings appear to be accurate and

- 2. TOPOGRAPHY / PHYSIOGRAPHY
 - A. Cuts and Fills at Well Locations and Along Roads Marathon is in agreement of the Insignificant Determination for the Persposed Action. The Mitigation Measures of avoiding prominent features and areas of high erostonal potential and adhering to the Transportation Planning Guidelines can be met by Industry
 - Alteration of Surface Drainages Marathon is in agreement of the insignificant Determination for the Praposed Action. The Mitigation Measures of avoiding draina where possible, re-establishment, reclamation, and monitoring of impacted drainage designing of made and appropriate culverts, and the acquisition of necessary Section 404 Permits can be met by industry.
- 3. MINERALS / GAS AND OIL
 - A. Depletion of Gas and Condensate Reserves Marathon is in agreement of the Significant Determination for the Proposed Action. The main thrust of this NEPA Procedure is to develop a document that can be followed to aceter to search the gas and condensate to its non-contactual level of certarction, without watch. If the No Action Alternative is followed. Significant contournel instants will include: Volucion of Issue Relatives and antipact will result. These will include: Volucion of Issue 2010. agreements, loss of Federal Royalties, and loss of momies to the State and Local ē
 - Depiction of Aggregate Sources for Road and Facility Site Surfacing Marshon is in agreement of the Insignificant Determination for the Proposed Action because additional sources would be identified
- sources would be identified. C. Localized trapporty. Loss of Ascess to Other Mineral Resources Marahon is in agreement of the insignificant Deterministics for the Proposed Ascion. Gas extructions is and would become more provident. The Moligation Measure of evolution fauture mine / quarty sites, if known in advance, could be followed by industry where president.
- 4. GEOLOGIC HAZARDS
 - A. Flood Damage to Pipelinas and Facilities Marathon is in agreement of the Insignifican Determination for the Proposed Action. In addition to the Mitigation Measures of avoidance of floodplains and flood-prone areas, where possible, if drainages have to be
- avoidance of faceptants and noco-proze stras, write possion, it waiting- arressed, by will be crussed in the perpendicular.
 Retarrivation of Stabilized Dates Due to Ground Cover Removal, Inadequate Retarrivation of Stabilized Dates Due to Ground Cover Removal, Inadequate Retarrivation of Stabilized Dates Due to Ground Cover Removal, Retarrivation, Marchae is an Unsergentent of the Proposed Action Indiag of Ising Least. If the Miligation Messaures of "Avoidance of dunes where possible more than the stabilized base of "Avoidance of dunes where possible more than the stabilized base of "Avoidance of dunes where possible more than the stabilized base of 1) appropriate and timely reclamation, crosion control, and revegetation; adherence to

Letter 18 - T.N. Tipton, Marathon Oil Company, Page 3

Clare Miller Bureau of Land Management June 23, 1999 Page 1

- 11 Seven and also specific melanation guidelines, reclanation success mobilering" are followed, but the Significant tables should use a strategy of the sevent followed, but the Significant tables with the sevent set of the imaginizens tablesministic for the Popored Artica, a strate, fair is due to the low producing accurate in the series of courts, No explores and, but is due to the low producing accurate in the series of courts, No explores dimensional strate and a strate of the producing accurate in the series of courts, No explores dimensional strate and a strate of the producing accurate in the series of courts, No explores dimensional strate and a strate of the producing accurate in the series of courts, No explores dimensional strate and a strate of the series of the
- entrapiator. E. Lond Silosto and Silostopia et Construction Silos Marshhon is in agreement of the Interflattent Deterministics for the Proposed Action. The Militgation Measure of "evolutions of survalues low service metallulation (second barry). Molification of Chalancies Marshina", Automote in a generation of the Indeplicate Deterministics of the Proposed Action. The Militgation Measure of Marshina and Actionations, disputs, and antimicrosof addit Calancian of the Indeplicate Deterministics of the Proposed Action. The Militgation of Measure of Marshina and Measure Marshina, and Measure Measurements of the Indeplicate Deterministics of Addit Calancian Science and Scie
 - ttry.
- 5. PALEONTOLOGICAL RESOURCES
 - A. Distarbance / Destruction of Important Fossils Marshon is in agreement of the Insignificent Determination for the Proposed Action.
 B. Loss of Important Fossil Materials Data to Private Collection or Vandalism Marshon is
 - nent of the Insignificant Determination for the Proposed Action.

The Mitigation Measures, addressing the two above items, "avoidance, recovery, and/or monitoring as determined during the preconstruction BLM peleostological surveys" can be followed by industry.

- C. Discovery of Previously Unknown Fossils Marathon is in agreement of the Beneficial Determination for the Proposed Action.
- 6 500 5
 - A. Disturbance and Erosional Loss of Solls During Vegetation Strippping, Topaoli Salvaging and Stockpling, and Cut-and-Fill Operations Marshon is in agreement of the insignificant Determination for the Propased Action.
 B. Soil Compaction and Decrement Productivity Marshon is in agreement of the Interview Compaction and Decrement Productivity Marshon is in agreement of the
 - ant Dece Insignific tion for the Prop

The Mitigation Measures, addressing the two above items, spacifying avoid areas and utilizing presional control techniques can be followed by industry e of crotion prono

C. Contamination Due to Accidental Hazardous Material Spills - Marathon is in agr of the Insignificant Determination for the Proposed Action. The Mitigation Meas ardous Material Spills - Marathon is in agree

Letter 18 - T.N. Tipton, Marathon Oil Company, Page 4

Clare Miller Bureau of Land Management June 23, 1999 Page 4

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- "adversars to poll prevention and anotal outcommensary plans and other sprinked local, same, of prevention and anotal outcommensary plans and other sprinked local, same, of prevention of sprinked local control of the prevent advancement of the prevention of standing of the prevention of the prevention of the prevention sprinkers. If the outcommensation and commensation of the prevention of the local prevention of the local local prevention of the prevention of the prevention of the local prevention of the local prevention of the prevention of the prevention of the local prevention of
 - followed by industry
- 7. SURFACE WATER RESOURCES
 - A. Increased "tradition," shallow, and followmentian of Software Weart Data to Automatic Software and Software Softwa
 - Determination to Intigraficant. C. Contamination of Surface Waters Fram Accidental Hazardous Matorial Spills
 - Marthum is in agreement of the Insignificant Determination for the Proposed Action. The Mitigation Measure of following the SPCC Plans can be athered to by industry. D. Surface Water Depletions Marshon is in agreement of the Insignificant
 - Suitor water represent outpresent is in agreement of the insignment
 Determination for the Proposed Action.
 Contamination of Surface Waters From Discharge of Uasuitable Quality Produced Water Marathon is in agreement of the Insignificant Determination for the Proposed Action. The Mitigation Measure of "appropriate disposal of poor quality produ-water; adherence to NPDES permit requirements" can be followed by industry.
- 8. GROUND WATER RESOURCES
 - A. Contamination of Ground Water Fram Discharge of Produced Water, Arelidental Hazardoos Material Spills, and/or Cross Aquifer Mixing Through Well Bores-Marathon is argement of the Insignificant Dovernination for the Proposed Action. The Minipation Measures of "appropriate containment of materials; adherence to appropriate containment of materials; adherence to SPCC plans and adhe es to drilling and casing req dustry
 - B. Reduced Ground Water Availability From Withdrawel of Drilling Water Marsthon is in agreement of the Insignificant Determination for the Proposed Action. Recharging of

Letter 18 - T.N. Tipton, Marathon Oil Company, Page 5

Clare Mille Buresu of Land Management June 23, 1995 Page 5

the aquifers would take place once drilling is completed.

- e NOIST
 - A. Is Increased Noise Levels Near Residences and Within Crustial Wildlifs Habitate During Crucial Periods - Marthon is in agreement of the Generally Insignifican Determination for the Proposed Action. The Mitigation Measures of avoidance of residences and notifiling or construction activities within retucial wildlife habitat during crucial periods along with equipment multiler use and education of employees can be followed by industry.

10. 0008

- A. Presence of Offensiva Odors Associated with Drilling and Production Operations and Proximal to Pacilities and Roads Marathon is in agreement of the Insignificant Determination for the Proposed Action. The Mitigation Measures of regular equipment maintenance and avoidance of maidential areas where practical can be followed by
- 11. VEGETATION
 - A. Removal of Vegetation Marathon is in spreament of the insignificant Determination for the Proposed Action. The Mitigation Measures addressing reclamation can be followed by industry.
 - Isilowed by industry.
 B. Charges in Vegetation Diversity Following Reclamation and Potential Weed Infestigation Marutaon is in agreement of the Insignificant Determination for Proposed Action, The Miligation Measures of weed control and revegetative

 - Proposed Action, The Mitigation Measures of weed occurrint land revegetative procedures are to Molowed by Manuel, Annuel Maratolone Is in agreement of fine services on the Verlinder and Rippetine Annuel Maratolone Is in agreement of the services and the services of the third market and be followed by Underty, D. Rollenston Unaccessful Adver Flyn Yam Dismuteous of Weitsinds and Rippetin Areas Maratolic Services of the Maratolan Service and Annuel Adverse Annuel Adverse and Annuel Adverse and Annuel Adverse and Annuel Adverse Annuel Adverse Adverse and Annuel Adverse and Adverse Adverse Annuel Adverse Adverse and Annuel Adverse and Adverse Adverse Adverse and Maratoland Adverse Ad

 - B. Rescriving and the second secon з
- 12 WILDLER

Letter 18 - T.N. Tipton, Marathon Oil Company, Page 6 Clare Miller Clere Miller

Bureeu of Land Management June 23, 1999 Page 6

- A. Loss of Big Game Crucial Habitat Marathon is in agreement of Insignificant Determination for the Proposed Action. The Minige nent of the ine Me
- Interplating Determinants for the Physical Action. "The Marginess Maternet of distinguishing preventions in a new read with symphosized and starge metalli- distinguishing and the symphosized and the symphosized and the distinguishing and the symphosized and the symphosized and the distinguishing Determinants for the Physical Action The Addigation Maternet of distinguishing Determinants for the Physical Action The Addigation Maternet of distinguishing Determinants for the Physical Action The Addigation Maternet of distinguishing Determinants and the symphosized in the Billinewick by Redarge distinguishing a symphosized and the size of ericlicit and an arrow and distinguishing a symphosized and the size of ericlicit and and arrows and distinguishing the Size and the Size and a structure of eric distinguishing distinguishing the Size and Size and a structure of eric distinguishing and distinguishing the Size and Size and a structure of eric distinguishing and distinguishing the Size and Size and Size and a structure of eric distinguishing and distinguishing the Size and Size and Size and Billinguishing and Size and distinguishing the Size and Size and Size and Billinguishing and Size and distinguishing the Size and distinguishing the Size and distinguishing the Size and distinguishing the Size and distinguishing the Size and Size
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 - followed, then the Determination should be Insignificant. Increased Wijdlife Mortality From Activities of Man Ma E. Ir is in agreement of
 - Increased Widdlife Moraility From Activities of Man Marathon is in generating to the integrificant contention for the Proposed Action. The Mitagaton Measures and Activence to the Transportation Floring Guidalines can be followed by iolatory Vorsill Widdlife Healant Experiation: Artening in Guidalines can be followed by iolatory Overall Widdlife Healant Experiation: Artening in Guidalines can be followed by iolatory Overall Widdlife Indiantes, resistantiates materiations, disposal of outcome, limity expensioned Action. The Mitigation Measures addressing evolu-oritoria, limity emissioned Action. The Mitigation Measures addressing evolution outcome, limity emissioned Action. The Mitigation Measures addressing evolution outcome, limity emissioned Action. hazardous materiel, and avoidance of crucial areas during crucial time periods can be followed by industry
- 13. WILD HORSES
 - Wild Horse Displacement or Mortality Due to Habitat Loss or Other Antivides of Man, Loss of Forege Marshon is in agreement of the Insignificent Determination for the Proposed Action. The Miligation Measures of timely revegestation, and atherence to reclamation and transportation planning guidelines can be followed by A. Wild Horse Dis industry
- 14. TREATENED, ENDANGERED, AND SENSITIVE SPECIES
 - Mortality or Disturbance of my Listed or Candidate T&E Species or Disturbanc Crucial Habitat for Listed and Candidate Species Marathon is in agreement of Containt instants for a section of containing a species a material is an angular the formation of the species o

Letter 18 - T.N. Tipton, Marathon Oil Company, Page 7

Clare Mille Bureau of Land Manage June 23, 1999 Pare 7

B. Reduction in Other Sentitive Species and/or Species of Concers Due to Mertality or Habitat Removal - Marzhon is in agreement of the Insightiesan Determination for the Proposed Action. The Mitigation Measures of conducting Profilestandence maveys and evolutione of habitats of potential occurrence where possible can be followed by industry.

15. CULTURAL RESOURCES

- A. Disturbance / Destruction of Important Sites Marathon is in agreement of
- A. Disturtance / Description of Exponents Titles Mension is in generated of the bangingtion Determinision for the Travesset Action. The Milliogen Mensers as a most of the same of th

16. SOCIOECONOMICS

- A. Sorrown in Typolodow Montonin is as generate of 6 adoption Description of the the Typology of the the of Description of the theory of the Typology of the Typolo be expended to meet the needs at they occur. Disruption or Change of Character of Communities - Marathon is in Disagreement
- D. D D. Durquino er Charge of Denores of Communities - Monthen is in Disagreement of the Significant Denomination of an Normal Action. (If the Mission Meanement of the Significant Denomination of Stransbare Actions: The Mission Meanement Denomination should be insignificant. Burgerstein the the Norman is fully been active and Mission and Simulation of Local Denomination Meanement of the Significant Denomination the the Norman Active Denomination and Active Denomination of the Simulation of Local Denomination (In Simulation Denomination of Proposed Actions. The Midigaton Notaneme of Institution Denomination of the Proposed Actions. The Midigaton Notaneme of Institution Denomination of the Proposed Actions. The Midigaton Notaneme of Institution Denomination of the Proposed Actions. The Midigaton Notaneme of Institution Denomination of the Notabolism of Simulation Simulation of Local Denomination of the Institution Denomination of the Notabolism of Simulation Denomination of the Notabolism Denomination of the Notabolism of Simulation Denomination of the Notabolism of Denomination of the Notabolism of Denomination of Notabolism of Denomination of Notabolism of Denomination of the Notabolism of Denomination of the Notabolism of Denomination of Notabolism of Denomination of Notabolism of Denomination of Notabolism of Denomination of Denomination of Notabolism of Denominat 6

Letter 18 - T.N. Tipton, Marathon Oil Company, Page 8

u of Land Management June 21 1994 Pase S

17 LAND USE

- A. Reduction of AUMs for Livestock, Wild Horses. and Wildlife Marathen is in agreement of the Insignificant Determination of the Proposed ActionTee Mitigation Measures addressing timely reclamation and coordination with ranching operations
- Manuere addressing intervity reclamation and coordination with measuring operators, and be followed by industry. In the information of the interview of the integratificant Determination of the Proposed Action. The Medigation Measures of Conservations and maintaining means the BLA manderia can be followed by industry. [2] Displacement of Karril Rasidenta Manushon in Disagreement of the Significant Determination of the Proposed Action. If the Medigation Measures addressing the Determination of the Proposed Action. If the Medigation Measures addressing the
- 7 proximity of facilities to residential areas of concern are followed, the Determination should be Insigoiffeent.
 - about as insignificant. Durages in Character advances and these of the Area Date to Concounting, Durages in Character advance, Date (Origin and Character advances) is in agreement of the langingtions Determination of the Proyose A Acedon. The Mitigation Messars addressing the auto of equipment multiples, minimizing distances areas, appropriate and tanky reclamation, and employee education can be followed by industry. D. Changes in Ch
 - E. Infringement on Price Rights Marathon is in agreement of the Insignificant Determination of the Proposed Action. The Mitigation Measures addressing cooperation of existing Rights-of Way owners, coordinating construction efficiency. and restriction of development in proximity to residential areas can be followed by

VISUAL RESOURCES 18.

- A. Modification in the Basic Elements of Visual Resources by Presence of Facilitie and Equipment Marshon is in agreement of the Significant Determination of I Proposed Action. However, by Billowing the Midgation Manaures of paining facilities with Standard Environmental Colors to blend with the surroundings and nation of the dings and no. the p ence of facilities will have less of an imm
- 19. HAZARDOUS MATERIAL
 - A. Soil, Surface Water, and Ground Water Constraination and Wildlifs Exposure Marsizon is in agreement of the Imigatifiant Determination of the Proposed Action. The Millogation Manascense addressing SPCC Plans, for entiting and forcing of plot, the monitoring, constitutions, and proper disposal of potentially hazardous materials and to followed by industry.

Letter 18 - T.N. Tipton, Marathon Oil Company, Page 9

Clare Miller Bureau of Land Management June 23, 1999

The issuance of the Final Environmental Impact Statement authorizing the Propo The submote of the Final Enverymental Impact Statisticated antiborating the proposed. Action of Final Development as essential to as Statisticated or Vytoning, the Neural Operationate, the Local con-bolic for years while that SIS has been complied. It is importive that the Final BIS and Record De-Donisino be stands in a directly manager and that one gas development can take place that when the find one to occur, widdly thraining stipulations will be upon us and some areas will be off-limits for development unit in a summer 2000.

Sincerely,

MARATHON OIL COMPANY

2 . N. (Tim) Tipton Production Man Review M

7.2.18.2 Letter 18 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

<u>Comment Response 1</u> - The BLM agrees that suggested mitigation measures would likely avoid the reactivization of stabilized dunces due to ground cover removal; however, we do believe that such reactivation is possible under certain adverse conditions and, therefore, have taken the conservative view that under such conditions significant impacts could occur. The BLM would ensure that the project is implemented in such a way as to avoid most if not all significant impacts, and we are confident that the Operators would do the same.

Comment Response 2 - Please refer to Comment Response 1, above.

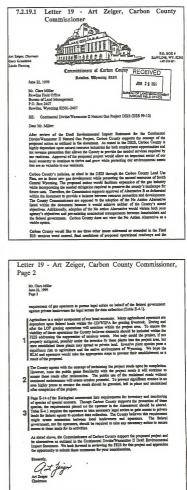
Comment Response 3 - Please refer to Comment Response 1, above.

<u>Comment Response</u> 4 - The BLM agrees that if all mitigations suggested in the DEIS are successful there likely would be no significant impacts; however, biological systems sometimes behave in unanticipated ways, and we believe that significant impacts to rapitors could occur even with the mitigation practices in place. The BLM and Operators would take all reasonable measures to minimize the potential for significant impacts. Furthermore, the Wildlife Protection Plan for this project (see DEIS Appendix D) would help in identifying/evaluating whether unanticipated impacts are occurring.

<u>Comment Response 5</u> - The BLM agrees that if all mitigations suggested in the DEIS are successful there likely would be no significant impacts; however, biological systems sometimes behave in unanticipated ways, and we believe that significant indirect impacts to big game could occur even with implementation of suggested mitigation practices. The BLM and Operators would take all reasonable measures to minimize the potential for significant impacts. Furthermore, the Wildlife Protection Plan for this project (see DEIS Appendix D) would help in identifying/evaluating whether unanticipated impacts are occurring.

<u>Comment Response</u> 6 - The BLM agrees that with the implementation of mitigations, it is unlikely that the proposed project would have significant impacts on the character of most rural residential areas; however, based on scoping and DEIS comments, it is likely that some area users and residents would perceive the development of oil and gas resources in areas of the CD/WIIPA as significant.

Comment Response 7 - Please refer to Comment Response 6, above.



7.2.19.2 Letter 19 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

Comment Response 1 - Mitigation measures for noxious weed control are presented in DEIS Section 2.6.13.8, Item #5, page 2-33, and in Section 4.2.1.5, pages 4-43 and 4-44.

<u>Comment Response 2</u> - Roads that are not required for some legitimate purpose at the end of the project would be reclaimed. Roads that would serve a legitimate purpose would be left in place assuming appropriate agreements for maintenance are negotiated. A methodology is in place for identifying the road reclamation process, and this process involves consideration of multiple agency and user concerns. Please refer to DEIS Appendix B, Transportation Plan, Section B-4.0.

<u>Comment Response</u> 3 - The requirements presented in DEIS Table E-4.1 were developed not only to protect TEC&SC, but also Operators, private landowners, and agencies from violations of the *Endangered Species Act*. Please be advised that the *Endangered Species Act* is applicable to both public and private lands. Furthermore, a procedure is in place for TEC&SC protection where access is not granted by private landowners (see DEIS Table E-4.1).

Letter 20 - Taylor and Juanita Myers, Page 2 and the Federal the eneourage without Angent dela 1 for the cas of the)

7.2.20.1	Letter 20 - Taylo	or and Juanita Myers
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7.2.20.2 Letter 20 Comment Response

7.2.21.1 Letter 21 - David R. Dalton	7.2.22.1 Letter 22 - David Weber
June 29, 1999	June 29, 1999
	Mr. Clare Miller
r. Clare Miller	Rawlins Field Office
awlins Field Office	Bureau of Land Management
ureau of Land Management	P. O. Box 2407
0. Box 2407	Rawling, Wyoming 82301-2407
awling, Wyoming 82301-2407	
and all and a second seco	Re: Continental Divide / Wassutter II Draft EIS
o: Continental Divide / Wamsutter II Draft EIS	CONSTR
CONGENTS	
COMMENTS	Dear Mr. Millers
par Mr. Miller:	As a concerned citizen and resident of the State of Wyoming, I wou
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is a concerned ditizen and resident of the State of Wyoming, I wou	ental Divide / Wamsutter II Draft Environmental Impact Statement.
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in this State, sales taxes have been non-existent and property tax	
is have been held to a minimum. Our Schools have also reaped the b	I am in agreement of the "Proposed Action" of Full Development as
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lease see that the "Final EIS and Record of Decision" be issued i	Sincerely.
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7.2.21.2 Letter 21 Comment Response

7.2.22.2 Letter 22 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS. <u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.23.1 Letter 23 - David Dennis	7.2.24.1 Letter 24 - Larry and LaVeta Pennock
June 75, 1993 Mr. Clark Mills Rowlins Field Office Physics Point of Office Physics Point (Field Office Physics Point (Field Field Physics Point (Field Field Concerns) Market Point A concerned to June 4 August I for first of Youlds. I not delike to thank you for this opportunity to comment on the Costion Mills Physics Physics Mills Physics Physics Mills Physics Physics Mills Physics A concerned to a single physics and it appears that the mills Vield Weaker II for any impact for the Mills Physics Physics Mills Physics Physics Mills Physic	Cher MIIIer, Tama Lander BLM Rawdins Field Ollice PA. Dox: 3407 Rawdin, WY. 82301-3447 The DEIS Contrastant Doided Wannanter II Naturil Gas Project Sciences and Carbon Counting, Wonning Omning and Park Sciences and a field fits part where we an approx the gas owner with the sciences and Carbon Counting, Wonning Omning and Park Sciences and a field fits part where we an approx the gas owner where the science and a science of the science of the sciences and sciences of a science of the science of the sciences of the sciences of the sciences of a science of the science of the science of the science of the sciences of a science of the science of the science of the science of the science of the long time. These you for giving us the change to int you know our science on a science of the science of the long time. These you for giving us the change to int you know our science on this project. The science of the science of the long time. These you for giving us the change to int you know our science on this project. The science of the science of th

7.2.23.2 Letter 23 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.24.2 Letter 24 Comment Response

, and the second s	Wire	7.2.26.1 Letter 26 - Scott A. Pilch
Technology, Inc.		June 29, 1999
June 29, 1999		
		Mr. Clare Miller
Mr. Clare Miller		Rawlins Field Office
Rawlins Field Office		Sureau of Land Management
Bareau of Lend Management		P. O. Box 2407
P. C. Box 24D7 Reviins, Wyoming 62301-24D7		Rawlins, Wyoming 82301-2407
		Set Continental Divide / Wassutter II Draft EIS
Re: Continental Divido / Wensutter II Dividt EIS COMMENTS		COMMENTS
Deer Mr. Hiller:	1.1.1	Dear Mr. Miller:
M die to than voi ne dit is opertuity to operant is the data that builds when the discretion of the intervention of the discretion the certification of the discretion of the operate takes to discretion of right homespeet (on the discretion of the discretion discretion of right homespeet (on the discretion of the discretion discretion of right homespeet (on the discretion of the discretion discretion of right homespeet (on the discretion of the discretion discretion of right homespeet) and the discretion of the discretion and the discretion of the discretion of the discretion of the discretion and the discretion of the discretion of the discretion of the discretion of the discretion of the discretion of the discretion of the discretion of the discretion of the discretion of the discretion of the discretion is discretion of the discreti	5. 196 1964 1974 1974 1975 1975 1975 1975 1975 1975 1975 1975	As a concerned citizen auf resident of the State of Wennin, 1 we dilks to thenk you for this popurinity to commant on the Concil coal forths / Handride II Stat Evicence is spear that the main forths of Handride II State Concilence is a spear that the Action of Null Development. One imput that will not be instruct is to the State Concerned Development to the State II the Barrier of This Development. One imput that will not be instruct in the State Concerned Development to the State of Wening through the Large and the State State State of Wening through the Large and the State State State of Wening through the Large and the State State State of Wening through the Large and the State State State State State State II had State also kees have been non-weistamt and property fail to had State, mains kees have been non-weistamt and property fail to had State, mains kees have been non-weistamt and property fail to had State, mains kees have been non-weistamt and property fail to had State, mains kees have been non-weistamt and property fail to had State, mains kees have been non-weistamt and property fail to have been held to minimum. Our Dakodis '' and a greenable of the "Toppeed Action" of hil terelogenees the phases des the the This Hill Base Access of Action the issues, a timely manner so that gat development can continue in this and a those Unrober daky.
WIRE . TEC	18	Sinceresty, Seott A. Pileh
WRRELINE TECHNOLOG manual Datasa in Georgeo D. Boorn W. 2000 Data Technolog Data Technolo		State Lu by Mera Denni Zvanster WY 82930

7.2.25.2 Letter 25 Comment Response

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7.2.26.2 Letter 26 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.27.1 Letter 27 - Paul D. ? (signature illegible)	7.2.28.1 Letter 28 - William D. Shade
Image: 28, 1999 RECEIVED Image: 28, 1999 Reference of the processor of the procesor of the processor of the procesor of the processor	June 28, 1999
Mr. Clare Miller Rawlia Field Office Boseno of Land Mangament P. O. Boz. 2407 Rawlin, Wyening E2301-2407 Rer. Continential Divide / Wannamer II Draft. EIS COMMENTS Dare Mr. Miller: As a concerned citates and readens of the State of Wyoning, I would like to thank you for this opportunity to sourcement on the Continental Divide / Wannamer II Draft. Eavironamental Impact Statement. The Draft Document addresses many Impacts and It appears that the majority of the Impacts will be "Instignificant" under the Proposed Antion of Full Development. Willdlin issues appear to be developed by instigning and be Milgingtion futures that with the to a the Antion of Full Development to the Antion with by the oil can gare operators. Use In a specement of the "Proposed Antion" of Full Development to presented in the Draft Document. The Final B2 and Record of Direction should be insued in a timely manner so that agin development on continue in this areas without furthe olivy. Biocenty.	Mc Clara Miller Bartics Field Office Bartics of Land Management Pro. Dec. 307 Revealure, Systemic 22301-2407 Revealure, Systemic 22301-2407 Revealure, Systemic 22301-2407 Revealure, Systemic 22301-2407 Revealure 22301-2407 Revealure 22301-2407 Revealure 22301-2407 Dear Mr. Miller: As a concerned citatum and resident of the Same of Wysening, I would like to thank you for this opperating to comment on the Continential Divide / Wanaatuke II Dank Environmental Impact Summer. • The Druk Document addresses many Impacts and it appears that the majority of the Impact Summer. • The Druk Document addresses many Impacts and it appears that the majority of the Impact Summer. • The Druk Document addresses many Impacts and the Same Development. Our simple that with and the Insignificant in the Socioentonial Impact to the Same View Impact that will be Tabipathenet in the Socioentonial Impact to the Same View Impact that with and the Insignificant in the Socioentonial Impact to the Same View Impact that will be considered and gas development and this in this site, and a sum to be non-existent on property toos have New Indo to a minimum. Our Schools have also regard the benefit from rynaities pairing ESS socioenties of Decision should be stated in the Insign Socioenties of the Same Document. The Final ESS socioenties of Decision Baudu Bautum Bautenes to the gas development san continue in this are without further deity. Silternetiy.

7.2.27.2 Letter 27 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.28.2 Letter 28 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

2.29.1 Letter 29 - Wes R. Handley	7.2.30.1 Letter 30 - Frank Krugh
RECEIVED	June 28, 1999
BUEAU OF CARD MANGEMENT RAVENS FELD OFFICE	Mr. Clare Miller Rawlins Field Office Bureau of Land Management P. O. Roy 2407
fr. Clare Miller	P. U. Box 2407 Rawlins, Wyoming 82301-2407
awins Field Other	Rawins, wyoming 62301-2407
. O. Box 2407	Re: Continental Divide / Warnsutter II Draft EIS
awlina, Wyoming \$2301-2407	COMMENTS
er Continental Divide / Wemsutter II Draft EIS	Community Communis Community Community Community Community Community Communi
COMMENTS	Dear Mr. Miller:
ear Mr. Miller:	As a concerned citizen and resident of the State of Wyoming, I would like to thank you for this
s a concerned citizen and resident of the State of Wyoming, I would like to thank you for this sportninfy to comment on the Confinential Divide / Warnsufter II Draft Environmental Impact memory.	As a contented uncert and readom of the Canton of Warnsufer II Draft Environmental Impact opportunity to comment on the Continental Divide / Warnsufer II Draft Environmental Impact Statement.
The Dash Document addresses many langacits and it appears that the majority of the langacits will be Tanignificant" most not hopposed Action of Full Development. Willike insust appears to be throughing investigated and the Mitigation Macament that will need to be adhered to can be detail with type ad land gas operators. Wildlife needs with the area gas development attenues well.	The Draft Document addresses may largests and it appears that the majority of the impacts will be "tanging indices" under the Propeed Action of Full Development. At Quality Model and smallyre its findings should prove supportive for the Propeed Action.
Another impact that will not be lasignificant is the Socioeconomic languet to the State of Wyoning through the increase of Tax Revences and Royaldam that this Development will generate for the State. Because of oil and an development within this that and an also there been non-existent and property taxes have been laid to a minimum. Our Schools have sale reque to be beeff. Then replicing pile to the State.	Document: The Final EIS and Record of Decision should be issued in a timely manner so that gas development can continue in this area without further delay. Sincempt
We must also remember the income generated to the Federal Government from gas development. Many companies activated into a contract with the Federal Government to lesse and drill on these leads. It approach, that my delays, borders on breach of contract.	Frank Kugh
am in agreement of the "Proposed Action" of Full Development as presented in the Denft Decument. The Pizni EliS and Record of Decision should be issued in a timely memore so that as development can continue in this area without further delay.	RECEIVED
Tea R. Handley	

7.2.29.2 Letter 29 Comment Response

<u>Comment Response:</u> Entire Letter - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.30.2 Letter 30 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.31.1 Letter 31 - Carol M. Rosencranse	7.2.32.1 Letter 32 - John K. Woods
lune 28, 1999	June 28, 1999
Mr. Clare Miller Rawlins Field Office	Mr. Clare Miller Rawlins Field Office
Bureau of Land Management	Bureau of Land Management
P. O. Box 2407	P. O. Box 2407
Rawlins, Wyoming 82301-2407	Rawlins, Wyoming 82301-2407
Re: Continental Divide / Wamsutter II Draft EIS COMMENTS	Re: Continental Divide / Warmsutter II Draft EIS COMMENTS
Dear Mr. Miller:	Dear Mr. Miller:
As a concerned citizen and resident of the State of Wyoming, I would like to thank you for this opportunity to comment on the Continental Divide / Warnsutter II Draft Environmental Impact Statement.	As a concerned citizeo and resident of the State of Wyoming, I would like to thank you for this opportunity to comment on the Contineotal Divide / Wamsutter II Draft Enviroamental Impact Statement.
The Drach Document advances many impacts and it appears that the majority of the impacts will be "facilitation" and the Appropriate Arice of 47D Directonem. One impact that will not be facilitation in the Socioacomonic impacts to the Socie of Wynesing through the Because of oil and a solvergoneen within the State, add two tense been non-existent and property tasks how been held as a minimum, Our School have also respect the State.	 The Druh Document adversame many impacts and it appears that the mitority of the impacts will be "adapted from" under the Proposed Action of "The Development. One simple that will not be insignificant in the Socioeconomic impact to the State of "Pyroming drough the increase of The Nersensan ad Royching is a full adversame will appears the for the state of the Society of the State of property taxes have been had to a clinitum. Our Schools have also respect the besitt from regulation guide to the State.
ism in agreement of the "Proposed Action" of Full Development as presented in the Draft Document. The Final EIS and Record of Decision should be issued in a timely manner so that gat development can continue in this area without further delay.	I am in agreement of the "Proposed Action" of Full Development as presented in the Draft Document. The Find EIS and Record of Decision should be issued in a timely manner so that gas development can contraine in this area without further delay.
Sincerely,	Sincerely,
Carel M. Receiverance RECEIVED	Atherda
Carel M. Resencrance RECEIVED	for filleda
C	RECEIVED
JUN 30 1999	RECEIVED
BUREAU OF LAND MANAGEMENT RAWLINS FIELD OFFICE	JUN 3 0 1999
RAWLINS FIELD OFFICE	
	BUREAU OF LAND MANAGEMENT RAWLINS RELD OFFICE

7.2.31.2 Letter 31 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.32.2 Letter 32 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.34.1 Letter 34 - Jeff Briggs 72331 Letter 33 - Nathan Leonard Mr. Clare Miller hune 28, 1000 Rawlins Field Office Bureau of Land Management P. O. Box 2407 Rawlins, Wyoming \$2301-2407 Mr. Clare Miller Rawlins Field Office Re: Continental Divide / Wamsutter II Draft EIS Bureau of Land Management COMMENTS P. O. Box 2407 Rawlins, Wyoming 82301-2407 Dear Mr. Miller: As a concerned citizen and resident of the State of Wyoming, I would like to thank you for this opportunity to comment on the Continental Divide / Wemsutter II Draft Environmental Re: Continental Divide / Wamsutter II Draft EIS COMMENTS Impact Statement Dear Mr. Miller The Draft Document addresses many Impacts and it appears that the majority of the Impacts will be "Insignificant" under the Proposed Action of Full Development. Air Quality scena to be a major issue and the extended time that was taken to prepare the Air Quality Model As a concerned citizen and resident of the State of Wyoming, I would like to thank you for this opportunity to comment on the Continental Divide/ Wamsutter II Draft Environmental Impact and analyze its findings should prove supportive for the Proposed Action. Ctatement. I am in agreement of the "Proposed Action" of Full Development as presented in the Draft Document. The Final EIS and Record of Decision should be issued in a timely manner so that gas development can continue in this area without further delay. The Draft Document addresses many Impacts and it appears that the majority of the Impacts will be "Insignificant" under the Proposed Action of Full Development. Wildlife issues appear to be throughly investigated and the Mitigation Measures that will need to be address to be dealt with by the oil and gas operators. I am in agreement of the "Proposed Action" of Full Development as presented in the Draft Document. The Final EIS and Record of Decision should be issued in a timely manner so that gas development can continue in this area without further delay. Sincerely, Sincereiv Nothen I conserved Seff Brigg JUN 30 1999 .IIIN 3.0 1999 EAU OF LAND MANAGEME AU OF LAND MANAGE

7.2.33.2 Letter 33 Comment Response

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<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.34.2 Letter 34 Comment Response

7.2.35.1 Letter 35 - Gerry Pence	7.2.36.1 Letter 36 - Clifford C. Main
	June 28, 1999
nane 23, 1999	
	Mr. Clare Miller
Mr. Clare Miller	Rawlins Field Office
Rawlins Field Office	Bureau of Land Management
Bureau of Land Management	P. O. Box 2407
P. O. Box 2407	Rawlins, Wyoming 82301-2407
Rawlins, Wyoming 82301-2407	
	Re: Continental Divide / Warmsutter II Draft EJS
Re: Continental Divide / Wamsutter II Draft EIS	COMMENTS
COMMENTS	
	Dear Mr. Miller:
Dear Mr. Miller:	
	As a concerned citizen and resident of the State of Wyoming, I would like to thank you for this
As a concerned citizen and resident of the State of Wyoming, I would like to thank you for this	opportunity to comment on the Continental Divide / Wamsutter II Draft Environmental Impact
apportunity to comment on the Continental Divide / Warnsutter II Draft Environmental Impact	Statement.
Statement	
	· The Draft Document addresses many Impacts and it appears that the majority of the Impact
The Draft Document addresses many Impacts and it appears that the majority of the Impacts will	will be "Insignificant" under the Proposed Action of Full Development. One impact that w
"Insignificant" under the Proposed Action of Full Development, One impact that will not be	not be Insignificant is the Socioeconomic Impact to the State of Wyoming through the
insignificant is the Socioeconomic Impact to the State of Wyoming through the increase of Tax	increase of Tax Revenues and Royalties that this Development will geoerate for the State.
Revenues and Royalties that this Development will generate for the State. Because of oil and gas	Because of oil and gas development within this State, sales taxes have been non-existent as
invelopment within this State, sples taxes have been non-existent and property taxes have been	property taxes have been held to a minimum. Our Schools have also reaped the benefit fro
aeld to a minimum. Our Schools have also resped the benefit from royalties paid to the State.	royalties paid to the State.
am in agreement of the "Proposed Actioo" of Full Development as presented in the Draft	I am in agreement of the "Proposed Action" of Full Development as presented in the Draft
Document. The Final EIS and Record of Decision should be issued in a timely manner so that	Document. The Final EIS and Record of Decision should be issued in a timely manner so that
gas development can continue in this area without further delay.	gas development can continue in this area without further delay.
Sincerely,	Sincerely,
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Benef genet	Ull Cmis
DECE	all Cillian
0 RECEIVED	Clifford C Main
	Clifford C. Main
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anu 20 299	JUW 3 0 1999
AT I OF LAND MANAGEMENT	BUREAU OF LAND MANAGEMEN RAWLING FIELD OFFICE
	BAWLING EVEN

7.2.35.2 Letter 35 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.36.2 Letter 36 Comment Response

7.2.37.1 Letter 37 - Chris Frost	7.2.38.1 Letter 38 - Eric Wenzel	
une 29, 1999	June 29, 1999	
Mr. Clare Miller Lawlin Tried Office Journal of Lawl Management P. O. Box 2407 Aveilas. Wyomine \$230.12407	Mr. Clare Miller Ravlina Fuid Office Bureau of Land Management P. O. Bez 2407 Ravlina, Wronine \$2301-2407	
Re: Continental Divide / Warnautter II Draft EIS COMMENTS	Re: Cootinental Divide / Wamsutter II Draft EIS COMMENTS	
Dear Mr. Miller.	Dear Mr. Miller:	
As a concerned citizen and resident of the State of Wyoming, I would like to thank you for this opportunity to comment on the Continental Divide / Wamsutter II Draft Environmental Impact Statement.	As a concerned ultizen and resident of the State of Wyomiog, I would like to thank you for this opportunity to comment on the Continental Divide / Wamsutter II Draft Environmental Impact Statement.	
The Druft Document addresses many largerest and it spears that the majority of the largerest will be "majorificant" mode the Proposel Action of Full Devolgement. One singest that will one to anignificant in the Socioeconomic Largere to the State of Wyoning through the issuress of Tax Lermons and Rayalities that this Devolgement will generate for the State. Bocase of of an edge lermongement within this State, asies zone have been concentrated and provident within do to a minimum. One School have also incorregio the South Former torogile the State.	The Drait Doucsent information may import and it appears that the majority of the Impacts will be "Imaginized" under the Propose Action of Full Dovement. One impact that will not be Imaginized in the Socioacomic Impact to the State of Worming through the increase of Tax Revresses and Reyrolism that this Development "Wighting the Impact to the State. Socioacomic for the State. Beaters of I and gas development with indicate for the State. Societies of I and gas development within this State. Of Worming through the Impact to the State. Societies and the State.	
am io agreement of the "Proposed Action" of Full Development as presented in the Draft Document, For the sake of all our children plaze see that the "Finit E1S and Record of Excision" be issued in a timely manner so that gas development can continue in this area withour turber delay.	I am in agreement of the "Proposed Action" of Full Development as presected in the Draft Document. For the take of all our children please see that the "Final ElS and Record of Decisioo" be issued in a timely manner so that gas development can cootinue in this area without further doky.	
Sincerely,	Sincerely,	
Chris From RECEIVED 322 Genery Bird, #71 JUN 30 1997 32301 JUN 30 1997 32001 JUN 30 1997	En: Wead 10 Relians RJ, 44 Relians, Wy. 100 JUI 30 1070 Bunchard Fuerry 100 30 1070 100 30 100 100 30 100 30 100 100 30 100 100 30 100 100 30	

7.2.37.2 Letter 37 Comment Response

7.2.38.2 Letter 38 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.39.1 Letter 39 - Brad Franks	7.2.40.1 Letter 40 - Alan L. Ennis
June 29, 1999	June 29, 1999
Mr. Clare Miller Rawlins Field Office	Mr. Clare Miller Rawlins Field Office Burpau of Land Management
Buresu of Land Management P. O. Box 2407 Rawins, Wyoming 82301-2407	P. O. Box 2407 Rawlics, Wyoming \$2301-2407
Re: Continental Divide / Wamsutter II Draft EIS COMMENTS	Re: Continental Divide / Wamsutter II Draft EIS COMMENTS
Dear Mr. Miller:	Dear Mr. Miller:
As a concerned citizeo and resident of the State of Wyoming, I would like to thank you for this opportunity to comment on the Cootineotal Divide / Wamsutter II Draft Environmental Impact Statement.	As a concerned citizen and resident of the State of Wyoming, I would like to thank you for this opportunity to comment on the Continenzal Divide / Wamsutter II Draft Environmental Impact Statement,
To Dath Document defenses any reports and is speers that the majority of the impacts will be "Linguistican" under the Proposel Action of Pull Development. One singest that will not be langinglicent in the Sochoeconomic impacts the the State of Wyening through the instrume of Tax Researchs and Reyrises that this Development Will generate for the State. Because of oil and gas development within this State, uses toxes have been concentrate and property taxes have been dott to a enistrum.	The Draft Document addresses many largests and is appears that the mightipy of the limitstrue to be "traingificant" andre the Proposed Action of Pall Dorespont. One impact that will on the largestificant is the Socioeconomic Impact to the State of Wyoning through the increase of Tax Reversuse and Reyaleiss that this Development will generate for the State. Because of oil and age development within this State, sales taxes have been non-existent and property taxes have been build on a minimum. Our Sociool state also respect the barber from revalues point to the State.
I am in agreement of the "Proposed Action" of Full Development as presented in the Draft Document. For the sake of all our children please see that the "Final EIS and Record of Decision" he issued in a timely mancer so that gas development can continue to this area without further deity.	I am to agreement of the "Proposed Action" of Full Development as presented in the Draft Document. For the safe of all our children please see that the "Finit EIS and Record of Declaico" be issued in a timely manner so that gas development can continue in this area without further delay.
Sinoarely,	Sincerely,
Brd Frada 50% Springs Dr. 61 85% 85% JUK 30 80%	Alat J. Easti Alat J. Easti Rock Springs, WY \$2591 JUN 3.0 fttp: mcc.rtr/rtractacators/and

7.2.39.2 Letter 39 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.40.2 Letter 40 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7-54

7.2.41.1 Letter 41 - Kendra Kalivas	7.2.42.1 Letter 42 - Paul Kalivas	
ume 29, 1999	June 29, 1999	
Ar. Clare Miller	Mr. Clare Miller	
awiins Field Office	Rawlins Field Office Bureau of Land Management	
O Box 2407	P. O. Box 2407	
awlins, Wyoming 82301-2407	Rawlins, Wyoming \$2301-2407	
Re: Continental Divide / Wamputter II Draft EIS COMMENTS	Re: Continental Divide / Wamsutter II Draft EIS COMMENTS	
Dear Mr. Miller:	Dear Mr. Miller:	
As a concerned citizen and resident of the State of Wyoming, I would like to thank you for this opportunity to comment oo the Continental Divide / Warmautter II Draft Environmental Impect Externent.	As a concerned citizen and resident of the State of Wyoming, I would like to thank you for this opportunity to comment on the Continental Divide / Wamsuttar II Draft Environmental Impact Statement.	
The Druß Document defenses many languess and it spapers that the majority of the languess will be "stappinfload", under the Proposel Accels of Full Development. One singust that will not be implicitly on the Development of the Development. The State Beense of Cloud gas between suff Royalites that this Development will generate for the State. Beense of Cloud gas development within this State, asias texts have been non-excitent and property taxes have been do to a ministam. One School have also incomed the benefit from raylisin gait to the State.	The Dreft Doutsent adverses may import and it appears that the majority of the Inspect woll, be "Insignificant" index the Propuse Alexan of Full Development. One impact the will see the Insignificant in the Sociencesmic Inspect to the State of Wroning through the increase of Tax Revenues and Revolution that its account of the State Beaute of I and gas development within this State, asies toxes have been non-mixten and property taxes have been add to a minimum. Our Solond have use creased the baset, Beautem of the State. Beautem	
am in agreement of the "Proposed Actioo" of Full Development as presented in the Draft Occument. For the sake of all our children please see that the "Final EIS and Record of Perither delay.	I am in agreement of the "Proposed Action" of Full Development as presented in the Druft Document. For the sake of all our children please see that the "Final EIS and Record of Decision" he issued in a timely manner so that gas development can continue in this area without further delay.	
incereiy,	Sincerely,	
Addra Kaliwa 19 Apeolo Lane RECEIVED Jun 30 1590	Peul Kalivas 287 Agesbe Jane Rock Springs, Wy. 50001 JUN 30 (599	

7.2.41.2 Letter 41 Comment Response

7.2.42.2 Letter 42 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.43.1 Letter 43 - David T. Johnson	7.2.44.1 Letter 44 - Lloy Dene Greb
June 28, 1999	June 28, 1999
Mc. Clars Miller Rawling Field Office Rawling Field Office Rawling, Nyoning E200-2407 Rawling, Nyoning E200-2407 Rawling, Nyoning E200-2407 Rawling, Nyoning E200-2407 Rawling, Nyoning E200-2407 Rawling, Nyoning Katalan, Angel Rawling, Nyoning I, Veuki IIke to thati you. Set this opportanity to comment on the Commend. Divide / Wannather II Dreft Eavironnenal Impact Paraging Infiant' market and Paragements that the majority of the Impaces will assume the Paragement of the States of Myoning. I would like to thati you. Set this opportanity to comment on the Commend. Divide / Wannather II Dreft Eavironnenal Impact Paraging Infiant' market and Paragement of the State. Because of Oil and set the Taight Infiant' market the Proposal Action of Paragement of the State. Because of Oil and set Revenues not Royalite that this Development will generate for the State. Because of Oil and set the Infiant State, and states the Neuron Action of Diversity of the Impaces will and foreignment with India State, and states the Neuron Neuron Diversity to the Neuron bid to a statisment. One School target of Diversity on the Impaces will generate for the State. Because of Oil and set and State States and States and the States and the States and States	Mc. Clare Miller Rowling Files & Management Pro. 3 Box 307 Rowling, Wyening E230-2467 Revice Continental Divide / Wanawatter II Draft EIS COMMENTS Dear Mc. Miller: As a concrease distant and rendered of the States of Wyenning, I would like to thack you for opportunity to comment on the Candisental Divide / Wanawatter II Dash Ravicesential Imp Statement. The Defin Document of the States of Wyenning, I would like to thack you for the Definition of the States of the States of Wyenning, I would like to thack you for Statement. The Defin Document of the Candisental Divide / Wanawatter II Dash Ravicesential Imp Statement. The Defin Document of the States of Wanawatter II Dash Ravicesential Imp Statement. The Definition of the States of Wanawatter II Dash Ravicesential Imp Statement. The Definition of the States of Wanawatter II Dash Ravicesential Imp Statement. The Definition of the States of Wanawatter II Dash Ravicesential Imp Statement. The The Definition of the States of Wanawatter II Dash Ravicesential Imp Statement. The The Definition of the States of Wanawatter II Dash Ravicesential Imp States of the States of Wanagement of the States of Wanawatter II Dash Ravicesential Imp States of the States of the States of Wanawatter II Dash Ravicesential Imp States of the States of the States of Wanawatter II Dash Ravicesential Imp States of the States of the S

7.2.43.2 Letter 43 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.44.2 Letter 44 Comment Response

<u>Comment Response:</u> Entire Letter - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.45.1 Letter 45 - Caroline Trumbull	7.2.46.1 Letter 46 - Vicki L. Schoeber
une 28, 1999	June 28, 1999
Mr. Clam Miller Mr. Mil	Mc. Clare Miller Barta of Land Minagement - Rawlins Field Office P. O. Box 2007 Remillion, YY 8201-2007 Rev Contendent Divide / Wenautter II Druß EIS - Comments Der Mr. Miller As a concented read-two statistical and the second statistical statistical and the second statistical statistical and the second statistical statistical and the second statistical and the second statistical and the second statistical and the se

7.2.45.2 Letter 45 Comment Response

7.2.46.2 Letter 46 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.47.1 Letter 47 - Steve Olenick	7.2.48.1 Letter 48 - Riley C. Skeen
June 28, 1999	June 28, 1999
Mr. Clare Miller Rawlins Field Office Bureau of Land Management P. O. Box 2407	Mr. Clare Maller Ravilas Fold Office Boreau of Land Management P. O. Box 2407 Bardiaz Wannin #2301-2407
Rawlins, Wyorning 82301-2407	Rawlins, Wyoming 82301-2407 Re: Continental Divide / Wemsutter II. Draft EIS
Re: Continental Divide / Wamsutter II Draft EIS	COMMENTS
COMMENTS	Dear Mr. Miller:
Dear Mr. Miller:	As a concerned citizen and resident of the State of Wyoming, I would like to thank you for this opportunity to comment on the Continental Divide / Wamsutter II Draft Environmental Impact Statement, ~
As a concerned citizen and resident of the State of Wyoning, I would like to thank you for this opportunity to comment on the Continenual Divide / Warnsutter II Druft Environmental Impact Statement.	The Draft Document addresses many impacts. In my opinion, impacts will be "Insignificant" under the Proposed Action of Full Development. Air Quility seems to be a major issue and the extended time that was taken to prepare the Air Quility Model and analyze in findings should
The Draft Document addresses many Impacts and it appears that the majority of the Impacts will be "Insignificant" under the Proposed Action of Full Development. Air Quality seems to be a majori issue and the extended time that was tuken to renerate the Air Quality Model and analyze	adequately support the Proposed Action. Additionally, wildlife issues generar to be thoroughly investigated and the Mitigation Measure
its findings should prove supportive for the Proposed Action. In addition, wildlife issues appear to be thoroughly investigated and the Mitigation Measures that will need to be adhered to can be	that will need to be adhered could and should be easily dealt with by the oil and gas operators. Please note that one very important impact that will not be Insignificant is the <u>Socioeconomic</u>
dealt with by the oil and gas operators. However, one impact that will not be Insignificant is the Socioeconomic Impact to the State of Wyoming through the increase of Tax Revenues and Royaities that this Development will generate for the State. Because of oil and gas development	Please note that <u>one very important initials</u> that will not be insignificant in the <u>Socialescontine</u> <u>Import to the State of Wyoning which we could lose to te adversity delayed</u> . There will be Tax Revenues and Royaltias that this Development will generate for the State.
within this State, sales taxes have been non-existent and property taxes have been held to a minimum. Our Schools have also reaped the benefit from royalities paid to the State.	To date, because of oil and gas development within this State, sales taxes have been non-exisy and property taxes have been held to a minimum. Our Schools have also respect the benefit for royables paid to the State.
is m in agreement of the "Proposed Astion" of Full Development as presented in the Draft Document. The Final EIS and Record of Decision should be issued in a timely memor so that gas development can continue in this area without further delay.	I am in agreement of the "Proposed Action" of Full Development as presented in the Draft Document. The Final EIS and Record of Decision should be issued in a timely manner so that gas development can comtinue in this zero without further delay.
Sincerely,	Storte y A
Allenica RECEIVED	Rilly C. Streen 124 Stide Drive Cody, Wyening £2414
Steve Clenick 1102 Willow Ln Cody, WY 82414 BUREAU OF LAND MANAGEMENT DAVID	AON 3.0 1933

7.2.47.2 Letter 47 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.48.2 Letter 48 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.49.1 Letter 49 - Todd Fields	7.2.50.1 Letter 50 - Richard Krupper
	June 29, 1999
June 29, 1999	
	Mr. Clare Miller
Mr. Clare Miller	Rawling Field Office Bureau of Land Management
Mr. Clare Miller Rawlins Field Office	Bureau of Land Management P. O. Box 2407
Revens Field Office Bureau of Land Management	Rawlins, Wyoming 82301-2407
P. O. Box 2407	Navitina, Montand, organization
Rawlins, Wyoming 82301-2407	Re: Continental Divide / Wamsutter II Draft ELS
Re: Continental Divide / Warnsutter II Draft EIS	
COMMENTS	Dear Mr. Miller:
	As a concerned citizen and resident of the State of Wyoming, 7 wow
Dear Mr. Miller:	As a concerned citizen and resident of the state of wyoming, I will id like to thank you for this opportunity to comment on the Contin-
	ental Divide / Wamsutter II Draft Environmental Impact Statement.
As a concerned citizen and resident of the State of Wyoming, I would like to thank you for this	ental bivide / wabsouler if blait hivitothental inguide ocurationer
opportunity to comment on the Cootinental Divide / Wamsutter II Draft Environmental Impact	The Draft Document addresses many Impacts and it appears that the
Statement.	matority of the Impacts will be "Insignificant" under the Proposed
	Action of Full Development, One impact that will not be insignifi
The Draft Document addresses many Impacts and it appears that the majority of the Impacts will	cant is the Socioecanomic Impact to the State of Wyoming through t
be "Insignificant" under the Proposed Action of Full Development. One impact that will not be Insignificant is the Socioeconomic Impact to the State of Wyoming through the increase of Tax	he increase of Tax Revenues and Royalties that this Development wi
Insignificant is the Socioeconomic impact to the State of Wyoming through the increase of 1 at Revenues and Rhyalties that this Development will generate for the State. Because of oil and gas	11 generate for the State. Because of oil and gas development with in this State, sales taxes have been non-existent and property tax
development within this State, sales taxes have been non-existent and property taxes have been	es have been held to a minimum. Our Schools have also reaped the b
held to a minimum. Our Schools have also reaped the benefit from royalties paid to the State.	enefit from royalties paid to the State.
and to a manuality out Schools have and responded out schools and spinot provide and set	 A first set for set first set fin
I am in agreement of the "Proposed Action" of Full Development as presented in the Draft	I am in agreement of the "Proposed Action" of Full Development es
Document. For the sake of all our children please see that the "Final EIS and Record of	presented in the Draft Document. For the sake of all our children
Decisioo" be issued in a timely manner so that gas development can continue in this area without	please see that the "Final EIS and Record of Decision" be issued i
further delay.	n a timely menner so that gas development can continue in this are a without further delay.
	A without further delay.
Sincerely,	Sincarely,
RECEIVED	all a successions
	NI Landoin
Todd Fields 1700 Stanson Dr. #205	laley March
1700 Swansoo Dr. #206 Book Springs, Wy.	
	Toll Mapley alla.
82901 BUREAU OF LAND MANAGEMENT RAWLINS FIELD OFFICE	
RAWLINS FIELD OFFICE	E 4 11
	Purandon the 01930

7.2.49.2 Letter 49 Comment Response

7-58

7.2.50.2 Letter 50 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS. <u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.51.1 Letter 51 - Robert C. Balsam	7.2.52.1 Letter 52 - Michael S. Motsch
June 28, 1999	June 29, 1999
Mr. Clark Miller Review, Public Office senses. Provide Conference J. Das 1407 Review, Varianter II Dent Els CodMcTris Review, Miller Provincip II Conference And Review, Park Miller Provincip II Conference And Review, Miller Provincip II Conference Basedon, The Drub Document addresses may langue to di appara batt de najority of the Basedon, The Drub Document addresses may langue to di appara batt de najority of the Document of II Conference Basedon, The Drub Document addresses may langue to di appara batt de najority of the Document of II Conference Properties in the Order Basedon, The Drub Document addresses may langue to dia appara batt de najority of the Document of II Document addresses may langue to dia appara Basedon addresses may langue to dia appara Basedon, The Think IIS lang langue of the Document addresses may langue to dia appara Basedon addresses may langue to dia appara Basedon, The Think IIS lang langue of the Document addresses may langue to the dia addresses may	Mr. Gian Million Ravins Field Office Fueros of Load Magnement P. O. Box 307 Ravins. Wyoning 8230-3407 Rev Consistent Divider / Wanamer II Dath Els COMMONT Date for the Miller As accessered time, subscorman, the ppers, and 41 year resistent (subW) of the Sare of Working. I would like to back this opportunity to comment on the Continental Divider Wanneer II Data Reviewneers all magnetizes from the the majority of the Imperies and the National State of the Sare State of the Sare of Sare of Wanneer II Data Reviewneers all composed Action of Full Development. Will be Tables Statement. In Instagement of the Physical Action of Full Development as presented in the data of the Sare Sare Sare Sare Sare Sare Sare Sar

7.2.51.2 Letter 51 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.52.2 Letter 52 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7-59

7.2.53.1 Letter 53 - James Dale Malody	7.2.54.1 Letter 54 - Jared Hall
lume 28, 1999	June 28, 1999
Mr. Clare Miller Rawlins Field Office Brease of Load Office Brease Market Strategy and Strategy and Strategy Westing Algorithm 2010/07 Re: Continent Divide / Wannatter II Druk Ells COMMENTS	Mr. Clare Miller Ravins Field Office Burran of Land Mangammat P. O. Box 2407 Revinas, Wyoning \$2301-2407 Re: Cootinemal Divide / Warmanter II Druft EIS COMMENTS Deer Mr. Willer
Dear Mr. Miller: As a coocerned citizen and resident of the State of Wyoming, I would like to thank you for this opportantly to comment on the Contioental Divide / Wamsutter II Draft Environmental Impact Subment.	Deer Mr. Multer: As a coocented citizen and resideot of the State of Wyoming, I would like to thank you for this opportunity to comment on the Continental Divide / Wamsutter II Draft Environmental Impact Statement.
The Draft Document addresses many imputs and it uppears that the majority of the impacts will be "fraginglined" under the Proposed Action of Full Development. One impact that will not be development and Royalise that the Draft State of the State State and the State State and the State development willing this is that, pairs using the State State and the State. State and the State State and the State development willing this State, pairs there bees non-minimum and provide state the State.	The David Deciment deformers many impacts and it system that the minipart will can be be "haipstillated used to the Propose Action of Poll Devolutions: Consimpted that will not be larityfiftent is the Societonoomic impacts to the State of Wyoning through the increase of Tax Revresses and Revolution that the Devolution will system for the State. Because of oil and gas devolutions that this state, also taxes have been non-addential and property taxes have been held to a minimum. Our Sobook have to steeped the bearful from reputies pixel to be State.
am in agreement of the "Proposed Action" of Full Development as presented in the Draft Decumeot. The Final EIS and Record of Decision should be insued in a timely manner so that as development can continue in this area without further delay.	I am in agreement of the "Proposed Action" of Full Development as presented in the Draft Document. The Final EIS and Record of Decision should be issued in a timely manner so that gas development can continue in this area without further delay.
incerely,	Sincerely, June Hall
Dio Saudanano Dio Saudanano Diody, Wyening 62414 JUL + 1 B99 Budget of the monostation of	1959 Back And . , Apd. > Croy, will rady 4

7.2.53.2 Letter 53 Comment Response

7.2.54.2 Letter 54 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

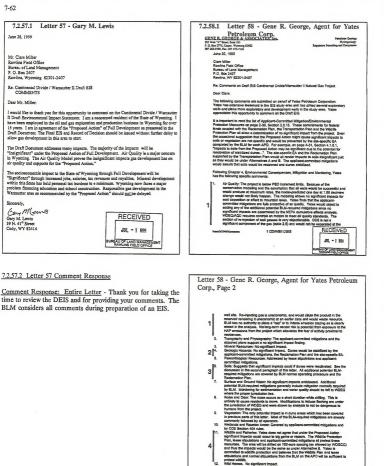
7.2.55.1 Letter 55 - Tom Fitzsimmons	7.2.56.1 Letter 56 - Mark Fisher
June 29, 1999	June 29, 1999
Mr. Clark Miller Rawling Field Office Borns of Land Management Rawling, Nycong E 2101-2407 Re: Continentit Divide / Vennutner II Denh Ells COMMANTS A soncernet dividers and reaktern of the State of Vycening, I would like to thenk you for this opportantly to comment on the Continental Divide / Wannater II Denh Environmental Impact Statement. The Denh Donament addresses many Impact and it appears that the majority of the Impact of Management of the State of the State of Vycening, I would like to thenk you for this opportantly to comment on the Continental Divide / Wannater II Denh Environmental Impact Statement. The Denh Donament addresses many Impact and it appears that the majority of the Impact of Management of Mychine that Divideogenets that the Management the Mana. Beaust et al. (c) and ga A strangement of Mychine that Divideogenet that the Management of the Dank. Beaust et al. (c) and ga brief on antinenan. Our Sachool Issue also reaped the breaft from royalities paid to the State. Deaton Wang Kang Mychine State of all Divideogenet at the Management of the Dank. Downman & Per de adie of all our diplement of the State of Divideogenet as the State State of the State State of the State of all our diplement of the State of Divideogenet as the State. Downman & Per de adie of all our diplement of the Dank. Deaton My Content State of the State of the State of the State of Divideogenet as the State State of Dank Ave Coxy, WY Excited State Ave	<text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text>

7.2.55.2 Letter 55 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.56.2 Letter 56 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.



4 voord welde. Wid Honse. No significant impact. Periorial Treatment and Endangered/State Sensitive Species: No adverse effects are anticipated.

- 13.
- 14. rel end Historia Ru
- are ancourses. I and Historic Resources: No significant impact, Fully protected by ni-committed mitigations and APD requirements. conomics: Many positive results will occur from this project in the form or mant, taxes and production of natural gen which improves the Country's 15.

2 CDAVISII DEIS

orp.,	Page 3	Finter & Rental Services dubb	
		Weatherland	
		Rook Springs, Wyomen (2001) P.O. Ban (S	
	air gustity. The noise is a short duration issue and will not likely displace any	Post Borrige, Wysmeng B2802(-008)	
	residents,	207002-684 Tester 307002-694	
70.	Land Use: Noise and visual impacts are of short duration and will not itenly displace residents. The Transportation Plan is a model for all ensuing federal		
	efforts. This will improve the road and access infrastructure for eli uses. Yetes	June 30, 1999	
	and other companies have already voluntarily donated money to improve BLM made.		
17.	Aesthetics and Vaual Resources: The only possible impact is if wells are drilled	Mr. Clare Miller	
	on 80-scre specing. The WOGCC currently only allows 160-scre specing. It is	Rawlins Field Office	
	very unikely, given the geology of the ges reservoirs in this area that lesser apacing will be economic or necessary to recover the natural gas resource.	Bureau of Land Management	
	spacing we be economic or necessary to recover the natural gas resource.	P.O. Box 2407 Bawlina, WY 82301-2407	
		Rawins, w T 82301-2407	
Yate	is Petroleum Corporation recommends that the BLM allow natural gas exploration	Re: Continental Divida/Warmutter II Draft EIS	
end	development in the EIS study area under the Proposed Action. There are more edequate protections for eil resources in the applicant-committed mitigations and	COMMENTS	
in th	a attached plans. Yetse desires to be allowed to further explore its federal and		
state	o of and gas isasehold at the earliest possible time. The eir quality energies used	Dear Mr. Miller:	
	atest model and was supported by the stakeholders protocol group and by the		
	threat Wyoming Air Technical Forum. This project will eld the test of the United es in meeting the requirements of the Clean Air Act by producing clean-burning	As a concerned citizen and resident of the State of Wyoming, I would like to thank you for this opportunity to comment on the Continental Divide/Wamsutter II Draft	
natio	ral gas from this environmentally safe, sensitive and protective project.	Environmental Impact Statement.	
Sinc	arely,	The Draft Document addresses many Impacts and it appears that the majority of the	
\geq	Jener 200	Impacts will be "Insignificant" under the Proposed Action of Full Development. One	
/		impact that will not be Insignificant is the Socioeconimic Impact to the State of Wyomis through the increase of Tax Revenues and Royalties that this Development will generate	
Gen	a R. George, Regulatery issues Agent for Yates Petroleum Corporation	for the State. Because of oil and gas development within this State, sales taxes have been	
Con	y Janet Richardson, Lise Norton, Yates Petroleum Corporation	non-existent and property taxes have been held to a minimum. Our schools have also	
	Al Pierson, Wyoming State Director BLM Hon, Berbara Cubin, Wyomino U. S. Representative	resped the benefit from royalties paid to the State.	
	How belows own, moning o. o. newsternance	I am in agreement of the "Proposed Action" of Full Development as presented in the	
		Draft Document. For the take of all our children please see that the 'Pinal DIS and	
		Record of Decision" be issued in a timely manner so that gas development can continue	
		in this area without further delay.	
		Sincerely,	
		Mark Cox Mariene Kauppi Kevio Reardon RECEIVED	
		Gary Brown Randy Kessner Jay Reed	
		Kelly Hanberg John Klouck Mike Romango JUL - 1 700	
Year	CONSIGements 3 CDAVSII DEIS	Jim Hoffman Chris Martines Birdt Staith UNR U GAU GAU CAU CAU	
		Barbara Jones Tony Moore Jun Smith	

7.2.58.2 Letter 58 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

<u>Comment Response 1</u> - As shown in the DEIS and Air Quality Impact Assessment Technical Support Document, no significant project-specific air quality impacts are anticipated. Therefore, it is logical to conclude that mitigation or monitoring to offset project-specific impacts would not be necessary. Furthermore, as clearly stated in the DEIS, the BLM is limited in its authority to apply many of the air quality mitigations identified in this EIS. However, the final decision regarding the mitigative actions that would be required for this project will be identified in the ROD.

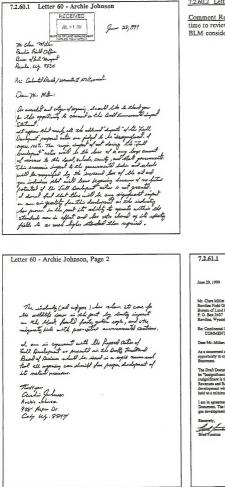
Comment Response 2 - Commented noted. Please refer to Letter 18 (Section 7.2.18.2), Comment Response 1, in this FEIS.

Comment Response 3 - Comment noted. Please refer to Letter 18 (Section 7.2.18.2), Comment Response 1, in this FEIS.

Comment Response 4 - Please refer to Letter 18 (Section 7.2.18.2), Comment Responses 4 and 5, in this FEIS.

7.2.59.2 Letter 59 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS. 7-64



7.2.60.2 Letter 60 Comment Response

Comment Response: Entire Letter - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.61.1 Letter 61 - Brad Funston

Mr. Clare Miller Rawlins Field Office Bureau of Land Management P. O. Box 2407 Rawlins, Wyoming 82301-2407

ental Divide / Warnsutter II Draft EIS COMMENTS

As a concerned citizen and resident of the State of Wyoming, I would like to thank you for this opportunity to comment on the Continental Divide / Warmautter II Draft Environmental Impact

The Dorth Dominant addresses many importent and its specers that the residently of the importent wells the transition of the one-has be average, so can be of the ID Dereissen. Doer timpret that will not be insignificant is the Storkerssmenic language to the States of Wyoming through the instrume of Tar-evenuma and Ryoxytics that this Development will generate first States. Because of old and gue development within this State, ashes taxes have been non-extinct not property taxes have been did to a minimum. One Schools have also needed the breakfit from reystiles pick to the Status.

I am in agreement of the "Proposed Action" of Full Development as presented in the Draft Document. The Final EIS and Record of Decision should be issued in a timely meaner so that gas development can continue in this area without further delay.

JUE 1 5 1000 RAWLINS FIELD OFFICE

7.2.61.2 Letter 61 Comment Response

Comment Response: Entire Letter - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.62.2 Letter 62 Comment Response

Comment Response: Entire Letter - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.62.1 Letter 62 - Heather Pence

June 28, 1999

Mr. Clare Miller Rawlins Field Office Bureau of Land Manageme Rawlins, Wyoming \$2301-2407

Re: Continental Divide / Wamsutter [] Draft EIS COMMENTS

Dear Mr. Miller

As a concerned eitizen and resident of the State of Wyonning, I would like to thank you for this opportunity to comment on the Continental Divide / Warnsutter II Draft Environmental Impact Statement.

Two Druft Document addresses many imports and it spears that the support of the Imports will be "Talapidicant" indicate Tabroward Action of Full Davedment. One impact that will not be insignificant in the Socioextension impact to the State of Wyoming through the instance of Tala development within this State, asks taxes have been non-statismt and property taxes have been this or a minimum. One School have and to repeat the state. The State is have been this or a minimum.

I am in agreement of the "Proposed Action" of Full Development as presented in the Draft Document. The Final EIS and Record of Decision should be issued in a timely meaner so that grist development can continue in this area without further delay.

JUL -1-1999

AU OF LAND MANAGEMENT

Sincerely

Nentres Ruce

I am in agreement of the "Proposed Action" of Full Development as presented in the Draft Document. The Final EIS and Record of Decision should be issued in a timely manner so that gas development can continue in this area without further delay.

Sincerely

Marine mospight Darlene MeKnight

JUL - 1 1999 AU OF LAND MANAGEMENT

7.2.63.1 Letter 63 - Darlene McKnight

June 29, 1999

Mr. Clare Miller Rawlins Field Office Burnau of Land Manage P. O. Box 2407 Rawlins, Wyoming \$2301-2407

Re: Continental Divide / Wamsutter II Draft EIS COMMENTS

Deer Mr. Miller

As a concerned eltizen and resident of the State of Wyoming, 1 would like to thank you for this opportunity to comment on the Continental Divide / Warnsutter II Draft Environmental Impact

The Dreft Document addresses many largester and its geners that the motiony of the Impacts will be "Insightant". Both the State of the Derevation of the Derevation of the State of the Derevation of the State of the Derevation of Derevation

7.2.63.2 Letter 63 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.64.2 Letter 64 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.64.1 Letter 64 - Charles Ohlson

June 28, 1999

Mr. Clare Miller Rawlins Field Office Bureau of Land Management P. O. Box 2407 Rawlins, Wyomiog 82301-2407

Re: Continental Divide / Warnsutter II Draft EIS COMMENTS

Dear Mr. Miller:

As a concerned citizen and resident of the State of Wyoming, I would like to thank you for this opportunity to comment oo the Continental Divide / Wamautter II Draft Eovironmental Impact Statement.

The Dorth Document advances many important and its genera that the majority of the Inpects will be the integration of the Document. One import that will not be imaginations that the other of the Document. One import that will not be imaginational is the Socioeconomia lineators to the Socioeconomia lineators to the Socioeconomia lineators to the Socioeconomia lineators are of the Oregonal Socioeconomia lineators are seen to the Socioeconomia lineators are seen to the Socioeconomia the Socioeconomia lineators are seen to the Socie of Wyoming Brought that Socioeconomia lineators are seen to the Socie of the Soc

I am in agreement of the "Proposed Action" of Full Development as presented in the Draft Document. The Final EIS and Record of Decisioo should be issued in a sizely manner so that gas development can continue in this area without further delay.

Sincerely, 21 "Il dill

Charles Ohison

 7.2.65.1 Letter 65 - Jon Salomonsen

June 28, 1999

Mr. Clare Miller Rawlins Field Office Bureau of Land Messgement P. O. Box 2407 Rawlins, Wyoming \$2301-2407

Re: Continental Divide / Wamsutter II Draft EIS COMMENTS

Dear Mr. Miller:

As a concerned elitzen and resident of the State of Wyoming, I would like to thank you for this opportunity to eorament on the Continectal Divide / Wernsutter II Draft Environmental Impact Statement.

The Draft Documeox addresses many impacts and it appears that the majority of the impacts will be "Insignificant" under the Proposed Astion of Full Development. Air Quality seems to be a major issue and the extended time tain was taken to prepare the Air Quality Model and analyze its findings should prove supportive for the Proposed Astion.

In addition, one impact that will not be Insignificant is the Socioeconomic Impact to the State of Wyoning strough the increase of Tax Revenues and Royalites that this Development will generate for the State. Because of all and ge development withis this State, safe taxets have been con-existent and property taxet have been hold to a minimum. Our Schools have also respect the bundlift from reyalities path to tak State.

I am in agreement of the "Proposed Actico" of Full Development as presented in the Draft Document. The Final EIS and Record of Decision should be issued in a timely manner so that gas development can continue in this area without further delay.

Sincerely.

on Salomonsen



7.2.65.2 Letter 65 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.66.2 Letter 66 Comment Response

7.2.67.1 Letter 67 - Eric Ward

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.66.1 Letter 66 - Cynthia A. Truby

June 28, 1999

Mr. Clare Miller Rawiins Field Office Bureau of Land Management P. O. Box 2407 Rawlina, Wyoming 82301-2407

Re: Continental Divide / Wamautter II Draft EIS COMMENTS

Dear Mr. Miller

As a concerned citizen and resident of the State of Wyoming, I would like to thank you for this opportunity to comment on the Camtinental Divide / Wamautter II Draft Environmental Impact Statement.

The Draft Document addresses many Impacts and it appears that the majority of the Impacts will be "Insignificant" under the Proposed Action of Full Development. Wildlife issues appear to be theroughly investigated and the Mitigation Measures that will need to be adhered to can be dealt with by the cill and gas operators.

I am in agreement of the "Proposed Action" of Full Development as presented in the Draft Document. The Final EIS and Record of Decision should be issued in a timely manner so that gas development can continue in this zero without further delay.

Sincercly

Cynthind Thus Cynthia A. Truby

The emission inventory, near-field enalysis end far-field enalysis demonstrate a thorough investigation of potential eir quelity impecta. Conclusions from the enalyses show complians with applicable state and determal air quality regulations. Additionally, no eightiGant, edverse	*
impacts to eir quality, lake chemistry or visibility are likely to occur at any of the sensitive receptor areas due to the individual or cumulative actions.	
I live all quality unlights income amount to be therework investigated. The millionian meneration	

June 20, 1000

Deer Mr. Miler:

Mr. Clera Miller Rawins Field Office Bureau of Land Management P. O. Box 2407

swilns, Wyoming 82301-2407

Re: Continental Divide / Warnsutter II Draft EIS COMMENTS

Like eir quelty, wildlife issues appear to be thoroughly investigated. The mitigation measures to protect wildlife can be managed by the oil and gas operators.

As a concerned citizen and resident of the State of Wyoming, I would like to thank you for this opportunity to commont on the Continental Divide / Wernsutter II Draft Environmental Impact Statement.

The Draft Document addresses many impacts and it appears that the majority of the impacts will be 'insignificant' under the Proposed Action of Full Development. Two sensitive issues that the Draft Document' thoroughly addressed include air quality and widdling issues.

I em in egreement of the "Proposed Action" of Full Development as presented in the Draft Document. The Fland EIS and Record of Decision should be leaved in a timely manner so that ges development can continue in this area without further delay.

Sincerely,

JUL = 3 1999

BAWLING FLAND MANAGEMENT

Freaked Eric Werd



7.2.67.2 Letter 67 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.68.2 Letter 68 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

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7.2.68.1 Letter 68 - Jerry L. Guthrie	7.2.69.1 Letter 69 - Edward I. Hill
June 28, 1999	Bdward L BIII 4 South Marquete Court Cody, WY \$2414 JUL - 1 899
Mr. Clare Miller	
Rawlins Field Office	June 28, 1999
Bureau of Land Management	June 28, 1999
P. O. Box 2407	
Rawlins, Wyoming \$2301-2407	
Re: Continental Divide / Warnsutter II Draft EIS COMMENTS	Mr. Clare Miller Rawlins Field Office
Dear Mr. Miller:	Bureau of Land Management
Des Mr. Miller	P. O. Box 2407
As a concerned citizen and resident of the State of Wyoming, I would like to thank you for this opportunity to comment on the Continental Divide / Wamsutter II Druft Environmental Impact Statement.	Rawlins, Wyorning #2301-2407 Re: COMMENTS - Continental Divide / Warnautter II Draft EIS
 The Draft Document addresses many impacts and it appears that the majority of the Impacts will be "fraightfeast" under the Proposed Action of Full Development. One impact that will not be farsightfeast is the Socioeconomic impact to the Sate of Wyoning through the increase of Tax Revenues and Royalises that this Development will generate for the Sate. 	Dear Mr. Miller: As a concerned eithen and resident of the State of Wyoming, I would like to thank you for this opportunity to comment on the Continential Divide / Warnsuter II Druft Environmental Impact Statemeng.
property taxes have been held to a minimum. Our Schools have also reaped the benefit from royalties paid to the State.	The Draft Document addresses many Impacts and it appears that the majority of the Impacts will be "Insignificant" under the Proposed Action of Full Development. One Impact that will not be Lasignificant is the Socieoconomic Impact to the State of Wyoming through the interase of Tax.
I am in agreement of the "Proposed Action" of Full Development as presented in the Draft Document. The Final BIS and Record of Decision should be issued in a timely manner so that gas development can continue in this area without further delay.	Inarguilleant is the Socioexcoomme impact to the Sitis of wyoming through the increase of 14. Revenues and Royalites that this Development will generate for the Sitts. Excasus of oil and gas development within this Sites, seles taxes have been non-existent and property taxes have been held to a minimum. Our School have also reaged the benefit from royalites puid to the Sites.
Sincerely,	I am in exceement of the "Proposed Action" of Full Development as presented in the Draft
	Document, The Finel EIS and Record of Decision should be issued in a timely manner so that
Jerry S. Dutonie	gas development can continue in this area without further delay.
Jerry L. Guthrie	
	Sincerety, Tolkind I. Hell
RAWLINS FIELD OFFICE	

7.2.69.2 Letter 69 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.70.2 Letter 70 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.70.1 Letter 70 - Jeffrey T. Harvey 7.2.71.1 Letter 71 - Mark L. Dobson RECEIVED June 29, 1999 JUL - 1 1999 June 29, 1999 Mr. Clare Miller RAWLING FIELD OFFIC Rawlins Field Office Buresu of Land Management P. O. Box 2407 Mr. Clare Miller Rawlins, Wyoming 82301-2407 Rawlins Field Office Bureau of Land Management Re: Continental Divide / Warnsutter II Draft EIS P.O. Box 2407 COMMENTS Rawlins, Wyoming \$2301-2407 ental Divide / Warnsutter II Draft EIS Dear Mr. Miller Re: Contin COMMENTS As a concerned citizen and resident of the State of Wyoming, I would like to thank you for this opportunity to comment on the Continental Divide / Wamautter II Draft Environmental Impect Statement. Dese Mr. Miller As a concerned citizen and resident of the State of Wyorning, I would like to thank you for this opportunity to comment on the Continental Divide / Warnsutter II Deaft Environmental Impact The Draft Document addresses many: imports and reports that the mignifyer of the lopser, will be "taingifted" under the Propagation Address of Fell Development. One imports that will not be langifulfact in the Solococococits (import to the State of Wycenia) from the test imports of the Neurana and Raynilla and this Development. We import the twing property tasks have been hard to a minimum. Our Schools have also respect the been fit from reputate paid to the State. The David Devices informer same process and support that the majority of the ingress will be "faisibility and take the Process and a support that the majority of the ingress has a support instead of the state of the state of the state of the state of the support instead of the state of the state of the state of the state of the support of the ingress and process and its properties at AC solid. The David Devices and states may impact a set it toppers that the majority of the ingress will be "faisingfaist" under the state of the David Devices. We will be the support of the state of the state of the David Devices. The state is the state of the David Devices and will be the state of the David Devices. The state of the David Devices. I am in agreement of the "Proposed Action" of Full Development as presented in the Draft Document. The Final EIS and Record of Decision abould be issued in a timely manner so that gas development can continue in this same without further delay. Encourse to data stanti with or you so many gate operations. Will be "fining/minitan" under the Properties Action of file Development. On a single that will be a stand the stand of the s Sincerely. JeffreyT. Hang Jeffrey T. Harvey royalties paid to the State. I can in agreement of the "Proposed Action" of Fall Dorologuesent as presented in the Deef. Document. The Final EIS and Record of Dockston docate the insued is a timedy meaner so that and docularized and the events of the fall and the writeso the time delay. Sincerely, William Control and the second se JUL - 1 1999 U OF LAND MANAGEMENT

7.2.71.2 Letter 71 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.72.2 Letter 72 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.72.1 Letter 72 - Craig Barber	7.2.73.1 Letter 73 - Tim Tipton
	RECEIVED
ine 30, 1999	JUL - 2 1999
	June 29, 1999 BUREAU OF LAND MANAGEMENT RAWLING FIELD OFFICE
fr. Clare Miller	
tawlins Field Office	
Bureau of Land Management	Mr. Clare Miller
P. O. Box 2407	Rawlins Field Office
kawlins, Wyoming \$2301-2407	Bureau of Land Management
	P. O. Box 2407
Re: Continental Divide / Warnsutter II Draft EIS	Rawlins, Wyoming 82301-2407
COMMENTS	the man in young was a read
	Re: Continental Divide / Warmautter II Draft EIS
Dear Mr. Miller:	COMMENTS
am in agreement of the "Proposed Action" of Full Development as presented in the Draft	
am in agreement of the "Proposed Action" of Pull Development as presented in the Drant Document. Please see that the "Final EIS and Record of Decision" be issued to a timely manner	Dear Mr. Miller:
to that gas development can continue in this area without further delay.	
to the gas severopment can comme in this area without in this densy.	As a concerned eitizen and resident of the State of Wyoming, I would like to thank you
As a concerned citizen and resident of the State of Wyoming, I would like to thank you for this	for this opportunity to comment on the Continental Divide / Wamautter II Draft
poportanity to comment on the Continental Divide / Warnsutter II Draft Environmental Impact	Environmental Impact Statement. I support the comments within the Draft, and
Statement.	encourage quick approval so that gas development can be initiated as soon as possible.
	· Draft Document addresses many Impacts and it appears that the majority of the
Sincereiv.	Impacts will be "Insignificant" under the Proposed Action of Full Development. One
K.C. Barles	impact that will not be Insignificant is the Socioeconomic Impact to the State of
Craig Barber	Wyoming through increased Tax Revenues and Royalties to the State. Because of oil
800 Saratoga	and gas development within this State, sales taxes have been non-existent and
Green River, WY	property taxes have been held to a minimum. Our Schools have also resped the
82935	benefit from royalties paid to the State.
	1 am in agreement of the "Proposed Action" of Full Development as presented in the
	Draft Document. The Final EIS and Record of Decision should be issued in a timely
	manner so that gas development can continue in this area without further delay.
RECEIVED	Sincerely,
RECEIVED	
	2: John
JUL - 2 1999	5
	Tim Tipton
BUREAU OF LAND MANAGEMENT RAMUNS FIELD OFFICE	620 Skyline Drive
	Cody, Wyoming 82414

7.2.73.2 Letter 73 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.74.2 Letter 74 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.74.1 Letter 74 - Joseph C. Icenogle

Joseph C, Ieenogle 37 North Ridge Drive Cody, WY \$2414 (307) 527-5926

June 29, 1999

Mr. Clare Miller Rewins Field Office Burnen of Land Management P. O. Box 2407 Rawlins, Wyoming 82301-2407

Re: Continental Divide / Wamsutter II Draft EIS COMMENTS

Desr Mr. Miller:

As a concerned eithern and resident of the State of Wyoming. I would like to thank you for this opportunity to comment on the Commental Divide / Wamsutter II Deaft Environmental Impact Statement.

The Draft EIS addresses many sponulant impacts in which the majority will be "Insignificant" under the Proposed Action of Full Development. While, alt quality is perceived as a major isaue, extended time was taken to prepare as Air Quality Model and the subsequent analysis, which prove supports for the Proposed Action.

Wildlife issues appear to be theroughly investigated and the mitigation measures appear to be easily obminable by the oil and gas operators.

The impost has will are be languifined in the Solomonomia largest to the Sate of Woming and propose harmonic data constrained to the Woming and Solomonomia will generate for the people of the Sate. Historically, oil and get development which this Sate and provided for the sales arous and property taxes. However, more important can which the sobolis and the finding generated dressing has developed all field development.

I support the "Proposed Action" of Full Development as presented in the Druft EIS. I strongly encourage that the Final EIS and Record of Decision he issued in the shortest time period allowed by the National Revisionmenth Folice Act of 1969, as entended.

-	RECEIVED	٦
	JUL - 2 1999	
6UA	AU OF LAND MANAGENE	INT

7.2.75.1 Letter 75 - Sandy Puettman

June 28, 1999

Mr. Clare Miller Rawlins Field Office Bureau of Land Management P. O. Box 2407 Rawlina, Wyoming 82301-2407

Re: Continental Divide / Wamsutter II Draft EIS COMMENTS

Dear Mr. Miller:

As a concerned citizen and native resident of the State of Wyoming, I would like to comment on the Continental Divide / Wamsutter II Draft Environmental Impact Statement.

- The Draft Document addresses many impacts. It seems that many of the impacts will be "insignificant" under the Proposed Action of Full Development. Wildlife issues appear to be thoroughly investigated. The Mitigation Measures should be handled by the oil and gas operators.
- The David Document addresses using Japaces and Japaces that the majority of the Toppets will be "hanginghteen" tarker the Propagate dation of PAI Document. One impacts that will not be langinghteen in the Socieconomic Impact to the State of Wyoming through the Impacts and a state of the State of the

I am in agreement of the "Proposed Action" of Full Development as presented in the Draft Document. The Final EIS and Record of Decision should be issued in a timely manner so that gas development can continue in this area without further delay.

Sincently. sendy Puettman Sandy Puettman

7-71



7.2.75.2 Letter 75 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.76.2 Letter 76 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

7.2.76.1 Letter 76 - William L.M. Wilsey	7.2.77.1 Letter 77 - Mike Blevins
P.O. Box 193 Cody, WY 12614	6/28/97
Jana 30, 1999 Md. Chary Miller Rawlin Jord Management P. O. Ban 2007 Rawline, Wyomaing E2301-2407	H. Close Hyler. Revenus Files Oreas RUM RO Dox 2007 Revenus WY erson Revenus WY
Re: Condinental Divide / Warnsutter II Draft EIS COMMENTS Dars Mr. Miller	Pe: EIS - Continentar Division Wary suttanul Neturia Gas Processi
Deer Mr. Muiser: 1 would like to comment on the Continental Divide / Wansutter II Draft Environmental Impact Statement.	Dear Ms. Miller:
The The Decement addresses mays lengths and 16 properties during single discussion of the "mainginglistic matter of Properties during of The Decemposition, the single single discussion of the Decemposition, the single single discussion of the Decemposition of	 If a bugg change in T/A U, P.75 W is Shartaran CONTY, Wynning, T. Ruly Shartaran CONTY, Wynning, T. Ruly Shartaran Conty, W. Shartaran White K. Scale ou May D. W. Washington, The Scale of Control of May Distributed Cont

7.2.77.2 Letter 77 Comment Response

time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

<u>Comment Response 1</u> - The map has been corrected (see FEIS Appendix B, Map B-1.1). Thank you for bringing this to our attention.

7.2.78.2 Letter 78 Comment Response

Comment Response: Entire Letter - Thank you for taking the Comment Response: Entire Letter - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

			st Service		ional Forester, U.
		L'OIC:			P.O. Bez 25127
June 30, 1999	0	Department of Agriculture	Forest Service	Rosky Mountain Ragion	Lakersod, CO 00235-0127 Delivery: 740 Simms St. Goldes, CO 50441 Volor: 305-375-5359 TDD: 305-375-5369
JUL - 6 1999				Tile Ceder	
Mr. Clare Millier Burbau OF LAND MANAGEMENT Reviting Field Office					
Rewins Field Office				Detar	July 13, 1999
Buresu of Land Management	1 1	the second second			
P. O. Ber 2407		Mr. Class Miller Rawlins Field Office			RECEIVED
Rewlins, Wyoming \$2301-2407		Bureau of Land Manag			
summer, "Journal out of the	1 1	PO Box 2407 Rawlins.	WY \$2301-2407		JUL 22 399
Re: Continental Divide / Warnstater II Deaft EIS COMMENTS					SUREAU OF LAND MANUSEMENT
		Deur Mr. Miller:			
Dear Mr. Miller:		White Summe for an annual da		en minted immerie die	cussed in the Draft EIS for
As a concerned etime of existence of Working, Uwerk like to that yes for this opportantly to useward to the Contractal Dirick - Working Li Dirick Bownsmith III bank Bownsmith Wei Hang Bank III bank Bownsmith III bank Bownsmith III bank Bownsmith III bank Bownsmith Wei Hang Bank III bank Bownsmith III bank Bownsmith IIII bank Bownsmith III bank Bownsmith Bownsmith III bank Bownsmith Bownsmith Bownsmith Bownsmith III bank Bownsm	1	cal Support Document Development Project and Comment Bold Control consents and meet specific on acids of potential visibility may be approved visibility to Char antive exponsibility ¹ the Char I stress this found in the Wilderme Cound Internet States Cound Intern	Cautional Divide WL (ATTSD), As the sir of BST's (and comments in Bill BST's (and comments in Bill BST's (and comments in Bill States and States) (All States) as a large face advects in such protects to All Quality in such protects to All Quality in such protects to All Quality in such protects and a such as a decomined (using the Ref All States) (All States) as a such as a	anome il sud South. Sally essiyati was lin kars will corre both lin tere solutione in the solution of the tere documenta are sor- ter pollution impatti Acr Anexalizati, The Feetal I at pollution impatti at pollution impatti at pollution effecti devess, including CI solution official devess, including CI solution of the term and the solution official at in the sound of the term of the term of the term of the term of the term of the term of the term of the term of the term of term of term of term of term of the term of term of term of ter	Intel for both the South Baggs Network in ALTED. Network in this issue, while is- tily adoling process and Growts' respectively and the South Found Sorrow has the "sift- network of the South South South Power as for the You Coupred in Power as for the You Coupred in the South South South South South South Alternative South South South South South South South South South South Sou

Pearson, Wyoming State Director of the BLM, if 1.0 deciview visibility impairment (ootlocable			Wamsutter II DEIS Comm		
change) were to be allowed, theo the Forest Service would out be able to meet Coogress's goal		pg vii, paragraph 3, 2	ne 7: "potential exists" D	loes not meadon the re	suits of Method 2 analy-
Parson, wysoliad Suiz Linead of the ELA, it is loading without software to be a set of the set of t	16	sis, even though it is	ine 7: "potential exists" D mated in the far field analysis Method 2 and Method 4) pro- "Why have only the resolts 5	(pg 31, paragraph 2)	
m that in its above nauge 'any' impairment means any perceptible visibility impairment.	1 10	impacts on visibility.	"Why have only the resolts if	from the method with a	he least impact on visibi-
a seves of econorm or .5 deciview is much more likely to prevent future visibility	1	Hity ("method 4") ben	n selected to display in the pr	ablis?	
and a stress that we manage. More importancy, we releave that the and of the wildernesses that may receive the pollutant impacts should set the change or levels of concern that will be used in all test snalyees.		I og 3-8, perserenh 2:	Much of this section to incom	mplets.	
		- Did not Hat NAD?	Much of this section is incoming a Sinks Canyoo or Sout	th Pass. Were these us	ed in your modeling? If
the combination of the two approaches (Mathod 2 and Mathod 4) provi- ing of the likely impacts on visibility" (CD/WII E25 pg 31), then the	17	Did out manties the	data collected by the USFS	(Deep Lake (Bekteer)	Wildersess) and Saddle-
ig or the monty impacts on visibility" (CEU/WII ISIS pg 31), then the coordinations should disclose and discuss results from how whe	1 1	beg Lake(Pono Agie	Wildemess)) which was used	d in analysis.	
coosluctors sections should disclore and discuss results from both the formed method (Method 4) and the FS, NPS, EPA, WYDEQ and		- The modeling also	ared data from the BLM NDI	DN site at Pinedale, so	it should be mentioned
stethed 2). As the documents currently stand, only Method 4 (the ing) is discussed in the ecocutive summaries and conclusions sec-		# acc's.			
		pg 4-9, col 2. parages	ph 3: ock Springs surface meteorol		and the second
	18	100 modeling uses R	ock Springs surface meteoro é somo surface mot, data to r	regressi data and Lande	e opper sar data, should
e uses visiously maintainstometer data from one year data (1993), and therefore is to pendict the full more of normal visibility increase over future visibility availa-	1	eastern side of the co	otinental divide siso?	-procession procession of the	and brolloss on and
It was shown by transmission of the first implicit spectra (SU(1957), see the start is the star		F and (2 and 2 arrest	ah 2.		
Jointo visibility data, preferring at least a 5 year average. Because visibility	1	The text states: "The	pb 3: maximum predicted "near fi nious and would occur so th	ield" air pollutant cono	entrations occur closs to
lity baseline, pollution impacts to visibility may be underestimated if any year	19	and between well loc	stions and would occur so el	ose to each well longth	in that adding additional
is cleaper than that shown in the 1995 data.		wells throughout the reasonable/logical7	field would not increase the	uvocali maximum cooc	Non every 22
uality methods support documents also states that both visibility methods streed "background visibility measured at one location is representative of the					
street background variability measured at one location is representative of the	1	pg 4-19, paragraph 2:	Lists only results from "me miysit states (pg 31) "tho its a reasonable bracketing o	thod 4" analysis for fa	r field visibility, even
for example M1. Zirkel Wildomese visibility is cleaner than Rocky Mountain	20	and Method 4) servin	ies a reasonable bracketing of	if the likely impacts on	visibility." Way is
a service track background in the intervention of the Forestein and the intervention of the service and the se		I this?			
amounty. By using RAWY data to represent ML Zanzal Wadamant, visibility imposts leventimated at ML Zirkel. We are exercisily opported about portridal imports to Mr		I no 4-20 Inclusion of	Pinedale Antioline project h	n complation offerter	
bility, given the recent court-ordered clean op of the Haydeo power plant emissions.		The Pinedale Anticin	resource was speculative with rver, by mid 1998, the Pined	hen the work on this pr	oject was initiated in
be extremely disappointed to see these proposed actions result in backaliding from	1 01	March of 1995. How	ever, by mid 1998, the Pined	ais Antieline project w	as refined enough so
na zaroczi, by uróng KAOP don na propraest Mc. Zinkie wiedzama, visikilijn impesto zarodkowa za kontekti za na sarodkili socio senio bioto prosedi la prinosta biot. Millor, piero historia na sarodkili socio senio da prinosta prinosta bioto na da na internologi na zarodkili socio senio da prinosta prinosta bioto visikili prinostra u Mc Zinkie Wielsman have bena defenzabi dialebel in dui como traba internologi prinosta bioto da militaria da prinosta bioto visikili prinostra u Mc Zinkie Wielsman have bena defenzabi dialebel in dui como traba internologi prinosta ji zarodki zarodki dialebel ji da Li Mc Internol Billowa na convulci massa) of the Mc Zinkie Visikili y hostagressel data in favor of the diality data.	21	that the potential imp	sets should have been includ were not declared final until Is lete until spring of 1999, the mticline emissions into the co	es in the cumulative e	costs model. As the eduling analysis for this
oven when looking at "Method 2" results, because of the rejection by the BLM (for	1	project was not comp	icto until spring of 1999, the	re wursid have been ad	equate time to incor-
elieve are non-valid masons) of the Mt Zirkel visibility background data in favor of the	1	porse the Pinedale A	nticline emissions into the m	umeistive analysis.	
and a second data and a second s		I page 1-5 The Rewlin	Field office will expend the	RMP pumbers for we	Is in this BIS if all of the
recommend that construction, flaring, and blowdown emissions be included (as well as action emissions currently shown) in the currulative air quality analysis. The text of the	22	wells are allowed. W	Field office will exceed the ill an amendment to the RM LOD for this document?	P be required to allow	the additional wells
a contraction of the second se	1	I proor to signing of a l	COD for this document?		
not de useu cor dascunante increment or NAAQS violations, however, se believe it is ap-					
prists in locinds temporary communities entitled when extended in the second of the second se					
addie deposition impacts, These emissions should be modeled sumulatively (with production					
er 79 - Lyle Laverty, Regional Forester, U.S. Forest	Lat	ton 70 I ula	Louister Dami	and Denne	er, U.S. Fores
			Laverty, Regi	ional Poresi	er, U.S. Pores
e, Page 3	Ser	vice, Page 5			
anions and other completion economic as that wighting and writin depending imagene one ha					
sions and other cumulative sources) so that visibility and assidie deposition impacts can be used to the public.	1	Commente	amontter Il South Baggs A	ni Agentà recuricer	ashing roomer-
Sitesailly, we would have liked to have but a same constant safe of mikeledder inport and downno is developing in an episotensit, the data capital yeapsets majors. These separately as several protocol and modeling estated deviation much by BLM and Annow is the previous of an in a 3-31-39 mission yeapset of a several flux final approximation for the methods of the several several several several field field approximation of the several se	1	Vol 1, Near Field Ana	dyala .		
ement in developing and implementing the air quality impacts analysis. These apparently	1				
weal protocol and modeling related decisions made by BLM and Amoon in the year-long	231	pg li, last paragraph: H	um on type "in the at the".		
enmoot) without sukeholder antifiesties or comment opperunity. If the stakholder				and the Color of the	
se used successfully, there will need to be better communication and agreement co	24	page 2: Map is wrong produced from the most	. It shows South Baggs proj iel, the modeling may not be	ect area in Colorado. accurate, Also fie 2.1	or 20.
			e aunerous inconsistenties		
by has made served: (requester, la Filler indexing) ringetical (setter cat, loss par projects, rev cater and the setter of the properties of the setter of the setter properties of the research latent down to be write the setter of the setter of the setter of the setter of the setter of the setter of the setter of the setter of the setter of the setter of the setter of th		CD EISs (see table bel	ow) a annecore recorresponse .	Watte one socion and	me soom näggt stid
ra' man was no reasons listed above. In fact, we believe the development of the sir quality	1	Operation Phase Rig ro/Rig down	Near Field analysis	Seath Bager RCS	CDEIS
ase DEIS's could have been vasily improved, both in terms of how the stakeholder	1 1	Rig up/Rig down	apprex 24 days	1 day per well TN 2-1	5 days per location Thi 2-3
spilled and how contained data should be utilized. Nevertheless, we are hope-	1	TitraTion construction	12 days nor well	2 days nor Wall	12 fam per sell
	1		12 days per well stars per well stars per well	TN 3-1	12 days per well Thi 2.4
to be more controlers in the visitently incorning many in one of the or the	25	Construction Emissions Philip	5 days per well	2 days per wall Thi 3-1 1 day per wall Thi 3-1	5 days per location Tbl 2-3
			Di venne Aura		
went enviloable to all three documents is that Savant Run Wildorness is		Floring		Pg 3-39	15 days pg 2-23
minest applicable to all three documents is that Savage Rm Wildoment is remetts as a Class II area, when in fact it is a Wyoming Class I area. All		Bering	per day		10.00
documents as a Class II area, when in fact it is a Wyteming Class I area. All rage Run in the documents should be changed to reflect this.		Paring	per day per day	up to 3 days	
rements as a Ciase II area, when in fact it is a Wyoming Class I area. All a Ran in the documents should be changed to reflect this.		Floring	per day pg 6.	up to 3 days pg 4-7	up to 3 days
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uments as a Cisse II area, when in fact it is a Wyoming Class I area. All Run in the documents should be changed to reflect this.		Thering	per day pg 6.	up to 3 days pg 4-7	up to 3 days pg 4-9
documents as a Class II area, when in fact it is a Wyeming Class I area. All upn Run in the documents should be changed to reflect this.		Paring	per day pg 6. Actual enlexiation = max 15 days at 24 hours per day pg A.3-13		
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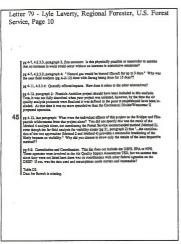
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7.2.79.2 Letter 79 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

<u>Comment Response</u> 1 - The BLM recognizes that the U.S. Congress established the National Wilderness Preservation System (Public Law [P.L.] 88-577, dated September 3, 1964) and specific Wilderness Areas (numerous subsequent laws, including P.L. 94-567, P.L. 95-237, and P.L. 98-550) and directed the appropriate federal land management agency to administer those lands 'for the use and enjoyment of the American people in such a manner as will leave them unimpaired for future use and enjoyment as wilderness, and so as to provide for the protection of these areas, the preservation of their wilderness character, and for the gathering and dissemination of information regarding their use and enjoyment as wilderness.

The BLM also recognizes that the U.S. Congress established procedures for the Prevention of Significant Deterioration of Air Quality (P.L. 95-55, dated August 7, 1977) 'to preserve, protect, and enhance the air quality in national parks, national wilderness areas, national monuments, national seashores, and other areas of special national or regional natural, recreational, scenic, or historic value" and 'to insure that economic growth will occur in a manner consistent with the preservation of existing clean air resources." Further, the U.S. Congress gave specific federal land management agencies "an affirmative responsibility to protect the air quality related values (including visibility) of any such lands, within a class I area and to consider, in consultation with the Administrator, whether a proposed major emitting facility will have an adverse impact on such values' under the Preconstruction Requirements (New Source Review) of the Clean Air Act.

However, the U.S. Congress did not require that all Wilderness Areas either have, on cahieve, pristine air quality conditions, nor did the U.S. Congress grant any federal land management agency air quality regulatory authority. In fact, ever since the original *Clean Air Act* was passed (PL. 159, dated July 14, 1955), it has been the declared policy of the U.S. Congress 'to preserve and protect the primary responsibilities of the States [Tribal] and local governments in controlling air pollution."

In 1977, after considerable debate, the U.S. Congress did amend the Clean Air Act (PL. 95-95, dated August 7, 1977) to address air quality on certain federal lands by: 1) establishing 158 mandatory federal PSD Class I areas where additional air pollutant levels above existing concentrations would be limited for specific pollutants (PSD Class I increments); 2) providing for federal land management agency review and comment on major air pollutant ensiston source permit applications (Major Stationary Source - New Source Review); and 3) establishing the National Visibility Goal of "the prevention of any future, and the remedying of any existing, impairment of visibility in mandatory class I Federal areas which impairment results from manmade air pollutant (Clean Air Act Section 169A(a)1).

By establishing the PSD Class I increments for NO2, particulate matter, and SO₂, the total concentration of these pollutants due to all non-temporary anthropogenic emission sources is restricted to a small level above legally defined baseline conditions. The U.S. Congress specified 158 areas as mandatory federal PSD Class I areas and provided a mechanism by which each applicable air quality regulatory agency could establish additional federal PSD Class I areas. However, the only Class I redesignations since 1977 have been completed by four specific tribal governments. In addition, EPA regulations specified that baseline conditions be legally defined only after a "major stationary source" permit was submitted, often many years after 1977. Of the nearly 625 current Wilderness Areas (Landres and Meyer 1998), only 120 are federal mandatory PSD Class I areas. Therefore, over 500 Wilderness Areas have no special air quality regulatory status.

By providing for federal land management agency participation in the New Source Review process, federal PSD Class I areas managers can exercise their "affirmative responsibility" to protect the AQRVs (including visibility) within their PSD Class I areas through review and comment on major air pollutant emission source permit applications, indicating to the air quality regulatory agency whether a specific proposed facility will have an adverse impact on such values. However, these reviews are limited to ouly those new emission sources (or modifications) which would result in either a 250-tpy increase for all stationary source types, or a 100-tpy increase for Congressionally specified stationary source types. In addition, although the federal land management agency's participation is legally mandated, the air quality regulatory agency's response is not. Therefore, although the federal land management agencies have an "affirmative responsibility," they do not have "affirmative authority" to protect the AQRVs (including visibility) on any lands they administer.

The Congressional goal to prevent and eliminate all anthropogenic visibility impairment within 158 federal mandatory PSD Class I areas is very clear. However, the U.S. Congress did not specify when the goal was to be reached, at what level visibility impacts could be considered natural (non-anthropogenic), nor even at what level air pollutants cause visibility impairment (a "just noticeable change"). Since the EPA visibility regulations allowed federal land management agencies to identify areas where visibility is not an important value, the USFS identified two mandatory PSD Class I areas where the national visibility goal is no longer applicable. In addition, until very recently (Final Regional Haze Regulations, 40 C.F.R. 51.300 et seq.; 64 Federal Register 126, July 1, 1999), the EPA regulations focused on "reasonably attributable" visibility impairment within the 156 federal mandatory PSD Class I areas where visibility is an important value from existing stationary sources. This process was established to require installation of Best Available Retrofit Technology to reduce, but not necessarily eliminate, anthropogenic visibility impairment. It will take time to see how effective the new Regional Haze Regulations are in achieving the national visibility goal.

In summary, the BLM recognizes and understands the USFN's responsibilities for the management and protection of wilderness, including the "affirmative responsibility" to protect AQRVs (including visibility) in the mandatory federal PSD Class I areas that it manages from adverse air pollution effects. The BLM also recognizes and understands the USFN's limited authority to meet these responsibilities.

<u>Comment Response 2</u> - The visibility impact screening analysis results were not "downplayed in the text, and not even mentioned in the executive summaries of both EIS's" nor was 'the visibility methodology showing the least impact not be discussed in the executive summaries of both EIS's and the conclusions section in the Air Quality Technical Support Document."

As fully described in FEIS Section 7.2.93.2, Comment Response 2, a conservative visibility screening level analysis did not preclude that proposed project operations might result in perceptible impacts, so a more refined potential visibility impact analysis was performed. In addition, this refined analysis compared potential impacts to both the 1.0 deciview "just noticeable change." And the USPS's preferred 0.5 deciview "yist noticeable change." As directed under NEPA (40 C.F.R. 1502.12), the Executive Summary "adequately and accurately" summarized "the major conclusions, areas of controversy (including issues raised by agencies and the public), and the sizes to be resolved (including the choice among alternatives)."

Finally, the Federal Land Managers' Air Quality Related Values Workgroup (FLAG) has revised their recommended visibility impact technical analysis procedure as described in the 'Draft Phase I Report' dated May 4, 1999 (National Park Service 1999). Although this is an internal review document, FLAG anticipates circulating its preliminary final version for public review and comment through a NOA to be published in the Federal Register in the winter of 1999-2000. FLAG has developed analytical procedures in order to evaluate potential air pollution effects on AORVs (specifically visibility, vegetation/ozone, and soils and surface waters/atmospheric deposition), as required under the FSD procedures of the CLean Air Act (New Source Review).

Although not required by NEPA, the BLM chose to analyze and report potential visibility impacts from the Proposed Action and alternatives using the FLAG Draft Phase I Report procedures for disclosure to the general public and the decisionmaker (Table 7.6). Since the FLAG procedures are limited to mandatory federal PSD Class I areas, FLAG values for the Bridger Wilderness Area are explied for the Popo Agie Wilderness Area and the Wind River Roadless Area. Additionally, FLAG values for the Mount Zirkel Wilderness Area were applied for Dinosaur National Monument and the Savage Run Wilderness Area.

For potential visibility impacts predicted to be at or above a 'y just noticeable change' of 0.5 deciview for any day, the FLAG Draft Phase I Report states 'The FLM (federal land management agency) would take into account magnitude, frequency, duration, and other factors in making an adverse impact determination' as required under the PSD procedures of the *Clean Air* Air (New Source Review), Given the results of the conservative visibility screening level analysis (method 2) reported in the DEIS (Section 4.1.1.6, Cumulative Impacts) and the FLAG Draft Phase I Report analysis above, the potential for significant adverse impacts was based on the more refined visibility impact analysis (method 4).

<u>Comment Response 3</u> - Since there are no air quality regulatory limits or standards defining a significant adverse visibility impact level, the BLM followed NEPA direction by including: "(1) a statement that such information is incomplete or unavailable; (2) a statement of the relevance of the incomplete or unavailable information to evaluating reasonably foresceable significant adverse impacts on the human environment; (3) a summary of existing credible scientific evidence which is relevant to evaluating the reasonably foresceable significant adverse impacts on the human environment, and (4) the BLM's evaluation of such impacts based upon theoretical approaches or research methods generally accepted in the scientific community" (40 C.F.R. 1502.22(b)).

As clearly described in the DEIS (Section 4.1.1.6, Cumulative Impacts), "A 10 deciview change is considered potentially significant as adopted by the Grand Canyon Visibility Transport Commission and reported in Pitchford and Malm (1994). A 1.0 deciview change is defined as about a 10% change in the extinction coefficient, which is a small but perceptible scenic change under many circumstances. The 1.0 deciview value corresponds to a 2 to 5% change in contrast, for a 'black target' against a clear sky, at the most optically sensitive distance from an observer. Factors such as the magnitude of deciview change, frequency, time of the year, and the meteorological conditions during times when deciview thresholds are above 1.0 (as well as inherent conservatism in the modeling analyses) should all be considered when determining the significance of potential impacts."

Location	Direct Project Sources 2	No Action Sources	Total Cumulative Sources
Federal PSD Class I Sensitive Recept	lors		
Bridger Wilderness	0	4	5
Fitzpatrick Wilderness	0	0	0
Mount Zirkel Wilderness	0	2	2
Rawah Wilderness	0	4	5
Federal PSD Class II Sensitive Recep	otors		
Dinosaur National Monument	0	0	2
Popo Agie Wilderness	0	3	5
Wind River Roadless Area	0	2	2
Federal PSD Class II/Wyoming PSD	Class I Sensitive Receptor		
Savage Run Wilderness	0	3	4

Table 7.6 FLAG "Draft Phase I Report" Predicted Visibility Impacts in PSD Class I and II Sensitive Areas, Continental Divide/Wamsutter II Natural Gas Project, Sweetwater and Carbon Counties, Wyoming, 1999.

Number of days at or above a "% just noticeable change" of 0.5 deciview.

² Direct project sources include the Continental Divide/Wamsutter II and South Baggs Proposed Action activities.

Since the DEIS was published, EPA issued their Final Regional Haze Regulations (40 C.F.R. 51.300 et seq., 64 Federal Register 156, July 1, 1999) which also considered various visibility impact measures. As stated by EPA 'The final rule maintains the deciview as the principle visibility metric used in establishing reasonable progress goals, in defining baseline, current, and natural conditions, and in tracking changes in visibility conditions over time. States may choose to express visibility conditions, terms of other metrics, such as visual range or light extinction, as well as in terms of deciview."

EPA reached this conclusion because the deciview "metric expresses uniform changes in haziness in terms of common increments across the entire range of visibility conditions, from pristine to extremely hazy conditions" and "a one deciview change in haziness is a small but noticeable change in haziness under most circumstances when viewing scenes in Class I areas." The Final Regional Haze regulations further state: "The EPA believes the deciview metric has been adequately reviewed for use in the regional haze program. The deciview concept was introduced in 1994 in an article appearing in the peer-reviewed journal Atmospheric Environment. It was presented in the 1996 Criteria Document for the PM NAAOS as a valid metric for characterizing visibility impairment. The EPA also recognized the deciview as an appropriate metric for regulatory purposes in Chapter 8 of the 1996 Staff Paper for the PM NAAQS review. Both of these documents were reviewed and accepted by the Clean Air Scientific Advisory Committee. Visibility conditions at Class I areas have been characterized in terms of deciview in summary reports on the IMPROVE visibility monitoring network," The EPA also supported use of the deciview metric because it satisfies the National Academy of Science (NAS) Committee on Haze in National Parks and Wilderness Areas for "development of an index that takes into account both measurement of physical changes (i.e., changes in air quality) with elements of human perception." Further, the Congressional Research Service found "that the deciview index 'conforms closely to the NAS recommendation cited above."

When questioned whether a 1.0 deciview change is "the threshold of perception [a "just noticeable change"] in all cases for all scenes," EPA agreed "that a one deciview change should not be considered the threshold of perception in all cases for all scenes. The EPA believes that visibility changes of less than one deciview are likely to be perceptible in some cases, especially where the scene being viewed is highly sensitive to small amounts of pollution. The EPA also acknowledges the technical point made by some commenters that for other types of scenes with other site-specific conditions, [Footnote 70: For example, where the sight path to a scenic feature is less than the maximum visual range] a change of more than 1 deciview might be required in order for the change to be perceptible. However, EPA wishes to emphasize that the overall goal of the regional haze program is not to track changes in visibility for only certain vistas at a specific Class I area. Rather, the program is designed to track changes in regional visibility for the range of possible views of sky and terrain found in any Class I area, and to assure progress toward the national goal. For this purpose, EPA supports the use of the deciview metric as calculated from ambient monitoring data for tracking changes in regional visibility." EPA concluded "Thus, although a 1 deciview change may not be the threshold of perception in all situations, the fundamental advantage of using the deciview remains: the deciview metric expresses uniform changes in haziness in terms of common increments across the entire range of visibility conditions, from pristine to extremely hazy conditions."

Again, since there is no applicable regulatory visibility standard or threshold, the BLM evaluated potential visibility impacts "based upon theoretical approaches or research methods generally accepted in the scientific community." The DEIS compared the potential visibility impact analysis results to both the 1.0 deciview "just noticeable change" of deciview Limit of Acceptable Change. Certainly any organization may select any other significance level for their own purposes, and the BLM agrees that selecting a visibility threshold of significance less that 1.0 deciview would be more restrictive, but not generally perceptible.

Finally, when the BLM presented its basis for using 1.0 deciview "just noticeable change" as a visibility impact significance threshold at the EPA Region 8 federal Leadership Forum meeting (Boettcher Mansion Conference Center, Golden, Colorado, June 24, 1999). USFS staff indicated the developers of the deciview metric (Pitchford and Maim) were dismayed that their publication was being quoted selectively and otherwise misrepresented. The BLM has contacted both authors requesting written clarification indicating which parts of their publication should either be deleted, revised, or supplemented with new information. The BLM has not yet received a written response from the authors.

<u>Comment Response 4</u> - As clearly stated in the DEIS (Executive Summary, page vi) "BLM-approved activities must comply with all applicable local, state, tribal, and federal air quality laws, statues, regulations, standards, and implementation plans" and on DEIS page 4-20 "there is no applicable state or federal regulatory visibility standard."

The Clean Air Act does require federal land management agencies to exercise their 'affirmative responsibility' to protect the AQRVs (including visibility) within mandatory federal PSD Class I areas, indicating to the appropriate air quality regulatory agency whether a specific proposed facility would have an adverse impact on such values (through federal land manager participation in the New Source Review process). For the limited purposes of the PSD Permit review, it is appropriate for the federal land management agency to select any significance threshold (or Limit of Acceptable Change) necessary to meet their policy requirements. Since a Limit of Acceptable Change is neither a regulatory limit nor regulatory standard, it's exceedance alone would not violate any local, state, tribal, and federal air quality regulatory requirement.

Where there is no applicable regulatory visibility standard or threshold, NEPA directs the preparing agency to determine and disclose an appropriate impact significance threshold using "existing [relevant] credible scientific evidence" based on "theoretical approaches or research methods generally accepted in the scientific community." The DEIS compared potential visibility impact analysis results to both the 1.0 deciview "just noticeable change" significance threshold level (based on best science) and the USFS "% of a just noticeable change" 0.5 deciview Limit of Acceptable Change (based on their own policy).

Although the USFS has no authority to require any agency to use its policy based Limit of Acceptable Change for any purpose, the BLM chose to analyze and report potential visibility impacts using the USFS values for disclosure purposes only. Certainly any organization may select any other significance level for their own purposes, and the BLM agrees that selecting a visibility threshold of significance less that 1.0 deciview would be more restrictive, but not generally perceptible. Please also see Comment Response 32, in this FEIS.

Comment Response 5 - Please see Comment Responses 2, above and 40, below and FEIS Section 7.2.84.2, Comment Response 32.

<u>Comment Response 6</u> - As clearly described in the Air Quality Impact Assessment Technical Support Document text (Volume II - 4.4. Dispersion Modeling Options):

"The refined analysis (method 4) used hourly direct IMPROVE transmissometer optical extinction measurements for defining the actual visibility conditions observed throughout 1995. Therefore, the meteorological conditions which occurred in defining the actual background are the same as those applied in the modeling analysis. The IMPROVE transmissometer values measured at the Bridger Wilderness Area were assumed to be representative of the Wind River Roadless Area, and the Bridger, Fitzpatrick, and Popo Agie Wilderness Areas. The IMPROVE transmissometer values measured at Rocky Mountain National Park were assumed to be representative of Dinosaur National Monument, and the Mount Zirkel, Rawah, and Savage Run Wilderness Areas.

In CALPOST method 4, hourly transmissometer measurements are averaged to compute 24-hour average background extinction values for each day in 1995. The main advantage of this technique is that correlations between meteorological conditions, actual visibility conditions, and potential source impacts can be evaluated in the delta deciview calculation rather than using the conservative long-term mean of the 20% cleanest seasonal visibility background data alone. For this reason, method 4 is considered the "refined" technique. Because method 4 compares potential visibility impacts to the entire range (from the 1% level to the 100% level) of actual measured background visibility conditions, it may, in fact, produce larger peak visibility impacts than method 2 which only uses the 90% level. Since the method 2 screening approach assumes the 20% cleanest visibility conditions would occur every day of the year, the peak impact would be less, but the number of days predicted to have perceptible impacts would be greater, method 4 is simply designed to use more detailed information on the actual background visibility conditions measured during 1995 when potential source impacts on visibility are predicted in the sensitive areas."

Because the very conservative, but much simpler, visibility screening analysis (method 2) assumes the 20th percentile cleanest seasonal IMPROVE fine particulate matter concentrations would occur on every day of the year, the visibility screening analysis (method 2) simply cannot provide "more realistic estimates" of visibility impacts than the more refined visibility impact analysis (method 4) based on direct hourly optical measurements.

In addition, IWAQM (EPA 1998) does not specify the period of "baseline visibility data," and does IWAQM midicate a preference for 'at least a 5 year average." IWAQM does state 'As noted previously, visibility analyses are compared against a background condition. The estimates of background visibility conditions at Class I areas are derived from the IMPROVE (Interagency Monitoring of PROtected Visual Environments) network. There are several methods of obtaining estimates of the background visibility. These include reconstructed extinction from speciated measurements of particulate matter, direct measurement of extinction with a transmissometer, and estimates of extinction from photographs."

The statement that 'visibility impacts on 'dirty days' are less apparent to the human eye" is also incorrect. As stated in the IWAQM document, the deciview visibility 'index was specifically designed so that anywhere along its scale, haziness changes that are equally perceptible correspond to the same deciview difference. For example, a 3 dv [deciview] difference caused by a change in air quality should result in about the same perceived change in haziness, whether under clean or highly polluted conditions."

However, adding equal air pollutant amounts into either clean or polluted background conditions will certainly have different visual impacts, and if future background optical conditions are more clear than those measured in 1995, greater potential visibility impacts would be predicted. Similarly, if future background optical conditions are less clear than those measured in 1995, fewer potential visibility impacts would be predicted.

Finally, as clearly described in the Air Quality Impact Assessment Technical Support Document text (Volume II -Appendix C - Analysis of Visibility Data in SW Wyoming and NW Colorado) "In order to assist in determining the 'representativeness' of 1995 optical data, Mr. Neth also prepared graphical displays of seasonal and annual 10-50-90 percentile Standard Visual Range bar charts for the Bridger and Rocky Mountain optical data period of record (Fall 1988 through Summer 1997). As would be expected, both monitoring locations showed an annual cycle with the highest (most clear) conditions occurring in Winter, and the lowest (most obscured) conditions occurring in Summer/Fall. In general, the 1995 data year was well within extreme values measured in other years (it was neither the 'most clear' or 'most obscured' data year), although the range of difference between the 10th and 90th percentile values was less than most other data years."

<u>Comment Response 7</u> - As clearly described in the Air Quality Impact Assessment Technical Support Document text (Volume II - 5.2 Visibility Impacts):

"It is also important to remember that both the screening (method 2) and refined (method 4) visibility impact analyses assumed: 1) reconstructed or measured background conditions measured at one location were representative of the entire sensitive area (as well as other sensitive areas); 2) the maximum modeled 24-hour primary and secondary particulate matter concentration at one location was representative of the entire sensitive area; and 3) these predicted conditions would occur uniformly throughout the calculated view distance (i.e., 250 km). These are conservative assumptions."

The BLM regrets any confusion it caused by referring to the assumption "reconstructed or measured background conditions measured at one location were representative of the entire sensitive area (as well as other sensitive areas)" as conservative. This assumption neither overestimates nor underestimates potential impacts.

However, assuming the maximum primary and secondary particulate matter concentrations predicted at any single location within the sensitive area are would occur evenly throughout the entire essensitive area, as well as in all directions throughout the entire visual range (up to hundreds of kilometers), are very conservative assumptions. The Revised Air Quality Impact Assessment Technical Support Document text (Volume II - 52 Visibility Impacts) has been revised to clarify that the last two assumptions are very conservative. Please also see Comment Response 44 below.

Comment Response 8 - Please see Comment Response 44 below.

Comment Response 9 - Please see FEIS Section 7.2.84.2, Comment Response 29.

<u>Comment Response</u> 10 - As described in FEIS Section 7.284.2, Comment Response 34, the BLM chose to use an advisory stakeholder process to prepare a protocol describing the methodology the BLM intended to use prior to conducting the air quality impact assessment.

The advisory stakeholder team included representatives of: the Operators (Amoco Oil Company, Merit Energy Company, Union Pacific Resources Company, Yates Petroleum, Snyder Oil Corporation, and others); the analysis contractors (TRC Mariah Associates, Inc., Earth Tech, Inc, and Gary Holsan Environmental Planning); the state air quality regulatory agencies. (Wyoming Department of Environmental Quality-Air Quality Division and Colorado Department of Public Health and Environment-Air Pollution Control Division); the federal agencies (EPA, USFS, BLM, and National Park Service); a tribal agency (the Wind River Environmental Quality Commission); and an environmental organization (the Wyoming Outdoor Council). Prior to and during advisory stakeholder meetings, the BLM emphasized that the team's purpose was to enhance cooperation before the BLM conducted its air quality impact assessment, rather than to simply risk receiving adversarial comments on the DEIS. The BLM also expressed a desire to obtain consensus, but insisted that where consensus was not possible the BLM was solely responsible for conducting the assessment. Apparently, some stakeholder participants either misunderstood or chose to ignore the advisory nature of the team. This may be because in most cases consensus was reached and the BLM conducted the air quality impact assessment as discussed by the advisory stakeholders.

Three formal advisory stakeholder team meetings were held, and formal stakeholder comments were solicited until April 10, 1998. In addition, the BLM also communicated with individual stakeholder team members as needed prior to issuing the Final Air Quality Impact Assessment Protocol on September 28, 1998 (BLM 1998e). All "protocol and modeling related decisions" were made by the BLM, and not by any other stakeholder (including Amoco Oli Company).

Finally, as clearly stated in the Final Protocol (Page 1) "The purpose of this protocol is to ensure that the approach, input data, computational methods, etc., are acceptable to BLM, and that interested parties have had the opportunity to review and provide input, before the study is initiated." In a few instances, based on unforeseen circumstances after the Final Protocol was issued, the BLM modified the air quality impact assessment procedures. These changes are described in the Revised Air Quality Impact Assessment Technical Support Document (BLM 1999d) and were discussed at a preliminary results presentation for the BLM's Wyoming State Director (held February 16, 1999). The entire advisory stakeholder team was invited to attend that presentation and to present any comments at that time. Although not required by NEPA, using an advisory stakeholder process to assist the BLM in implementing it's authority and responsibility to conduct air quality impact assessments is consistent with existing NEPA regulations.

Comment Response 11 - As required by NEPA, the BLM addresses each of its potential management decisions separately depending on the specific Proposed Action. Although there is no "standard" air quality impact analysis methodology, the BLM follows the federal NEPA regulations faithfully. Regarding individual Proposed Actions and alternatives, the methods used to evaluate potential air quality impacts are determined on a case-by-case basis. This is consistent with NEPA direction to discuss impacts "in proportion to their significance" (40 C.F.R. 1502.2(b)) and to apply analysis methods that are generally accepted in the scientific community (40 C.F.R. 1502.24). It is logical that the BLM may use much of the same data and many of the same methods as state, tribal, or local air quality regulatory agencies (which must be standard by law); however, NEPA specifies only the systematic approach (depending on the scope, potential significance, etc.) and not standard air quality impact assessment methods to adequately disclose potential air quality impacts from a Proposed Action and alternatives before such activities are authorized.

<u>Comment Response 12</u> - The BLM regrets any confusion it caused by referring to the Savage Run Wilderness Area as a PSD Class II area.

Under the federal Clean Air Act (42 U.S.C. 7472), all international parks, national Wilderness Areas, national memorial parks over 5,000 acres, and national parks over 6,000 acres in existence on August 7, 1977, were designated as mandatory federal PSD Class I areas. All other areas classified as either "attainment" or "unclassified" pursuant to the National Ambient Air Quality Standards were designated as PSD Class II areas. A formal process for redesignation of PSD Class II areas to either Class I or Class III was also defined (42 U.S.C. 7474). The federal visibility protection goal and requirements (42 U.S.C. 7491 and 7492) are applicable only within mandatory federal PSD Class I areas. In addition, mandatory federal PSD Class I areas may not he redesignated, although the spatial extent may vary if the original area's boundary is modified (i.e., Wilderness Area boundary expansions, etc.)

Under the State of Wyoming Air Quality Standards and Regulations (Section 24(c) Prevention of Significant Deterioration), all national parks, national Wilderness Areas, and national memorial parks in Wyoming (regardless of size) as of January 25, 1979, were designated Class I and may not be redesignated. Among other preconstruction permit application requirements, the State of Wyoming requires that an analysis be conducted of potential impairment to visibility, soils and vegetation having significant commercial or recreational value, and other associated growth that would occur.

Since the Savage Run Wilderness Area was established under the Endangered American Wilderness Act of 1978 (P.L. 95-237, February 24, 1978) and has not been redesignated as prescribed in the federal Clean Air Act (42 U.S.C. 7474), it is a federal FSD Class II area and a State of Wyoning Class I area. Similarly, since the Cloud Peak, Encampment River, Gros Ventre, Huston Park, Jedediah Smith, Platte River, Popo Agie, and Winegar Hole Wilderness Areas were established under the Wyoning Wilderness Ard of 1984 (P.L. 98-550, October 30, 1984), they are all federal and State of Wyoning FSD Class II areas.

As clearly stated in the DEIS (Executive Summary, page vi) "BLM approved activities must comply with all applicable local, state, trihal, and federal air quality laws, statues, regulations, standards, and implementation plans." Therefore, BLM-approved activities are required to conduct an analysis of potential visibility impairment within the Savage Run Wilderness Area under State of Wyoming regulations, even though the National Visibility Goal and Regulations are not applicable. In addition, potential air quality impacts within the Savage Run Wilderness Area would be limited by applicable federal PSD Class II increments and State of Wyoming PSD Class I increments.

Both the FEIS text (Section 3.1.2, Air Quality; Map 3.1; Section 4.1.1.6, Cumulative Impacts; Table 4.4; and Table 4.6) and the Revised Air Quality Impact Assessment Technical Support Document text (Executive Summary - pages ii and iii, Volume I - 1.0 Introduction, Volume II - 1.0 Introduction, Figure 1-1, and Table 5-3) have been revised to clarify the status of the Savage Run Wilderness Area as recommended.

Comment Response 13 - Please see Comment Response 44 below.

Comment Response 14 - Please see FEIS Section 7.2.84.2, Comment Response 32, and Section 7.2.93.2, Comment Response 2.

Comment Response 15 - As described in Comment Response 10, above, the BLM chose to use an advisory stakeholder process to prepare a protocol describing the methodology the BLM intended to use prior to conducting the air quality impact assessment. That formal process was completed when the Final Protocol was issued on September 28, 1998. The visibility analysis was done in a "technically supportable" manner, and no re-analysis is necessary. Please also see Comment Responses 1, 3, 4, and 6, above; Comment Response 32, and FEIS Section 7.293.2, Comment Response 2.

Comment Response 16 - Please see Comment Response 2, above and 40, below and FEIS Section 7.2.84.2, Comment Response 32.

<u>Comment Response 17</u> - NADP sites in Sinks Canyon or South Pass were not included in the Final Air Quality Impact Assessment Protocol, nor were they used in the deposition modeling analysis. The Acid Neutralizing Capacity (ANC) and pH of the sensitive lakes (Deep Lake and Saddlebag Lake) were supplied by the USFS and were used in the deposition modeling. The Pinedale NDDN site hourly ozone data and hourly metcorological data (wind speed, wind direction, temperature, relative humidity) were used in the CALPUFF and CALMET modeling, respectively.

<u>Comment Response 18</u> - The Rock Springs surface and Lander upper air meteorological data are the most complete data sets available (with at least 1 year of hourly measurements) and are representative of the meteorological conditions within the CD/WIIPA. The Continental Divide (along the southern boundary of the Great Divide Basin) roughly divides the CD/WIIPA in half along I-80; however, there are no terrain features along this region of the continental divide that would significantly affect the meteorology.

<u>Comment Response</u> 19 - Near-field dispersion modeling was performed for a patch of eight producing wells surrounding the proposed compressor station/gas processing plant operating at full capacity. Spacing between wells and to the centralized compression/gas processing facility was the minimum well spacing defined in the Proposed Action. Maximum modeled concentrations from well emissions alone were found to occur a receptors closest to the well. Maximum modeled concentrations from the compression/gas processing facility were found to occur several hundred meters away from the facility but within the representative production area. Considering the 'reasonable, but conservative' source layout and emissions used, and the localized nature of maximum modeled concentrations, it is reasonable to the state that adding additional wells beyond the modeled well patch would not significantly increase the overall maximum concentration.

Comment Response 20 - Please see Comment Response 2, above and 40, below and FEIS Section 7.2.84.2, Comment Response 32.

Comment Response 21 - As clearly described in the DEIS (Section 4.1.1.6 Cumulative Impacts) "The Pinedale Anticline project proposal was specifically not included in the cumulative air quality impact analysis as a 'reasonably foreseeable' development because of its unsettled, speculative status at the time the cumulative analysis was initiated. What may actually be authorized for development is unknown. No WDEQ-AQD air pollutant emission permits have been issued for the proposed Pinedale Anticline activities. Thus, to include the proposed project would mislead the public and the BLM decisionmaker with insupportable estimates of cumulative effects on the resources, ecosystems, or human communities. The BLM is developing the Pinedale Anticline air quality impact assessment protocol through its 'stakeholder' process, and it is clear the Pinedale Anticline cumulative air quality impact assessment will consider the Continental Divide/Wamsutter II and South Baggs projects, (as well as other 'reasonably foreseeable,' authorized, or permitted actions)."

Although the Pinedale Anticline protocol has since been prepared (BLM 1999c), the air quality impact analysis was not completed, nor was the DEIS published when the CD/WIIPA air quality impact analysis was completed. Therefore, the anticipated Pinedale Anticline project was not a "reasonably foreseeable" development for inclusion in this FEIS, although this project is a "reasonably foreseeable" development for inclusion in the Pinedale Anticline DEIS.

<u>Comment Response 22</u> - As described on DEIS page 1-9, the BLM will not authorize oil an gas development actions (APDs, ROWs) that exceed current RMP-identified reasonably foresceable disturbance estimates prior to completing a RMP review and possible amendment. However, the ROD for this EIS will likely allow for some level of oil and gas development on GDRA lands (e.g., \$1,655 wells) pending completion of an RMP review and possible amendment.

<u>Comment Response 23</u> - The Revised Air Quality Impact Assessment Technical Support Document text (Volume I -Executive Summary) has been corrected.

<u>Comment Response</u> 24 - The Revised Air Quality Impact Assessment Technical Support Document text (Volume I -Figures 1.1 and 2.3) has been revised to indicate the correct location of the South Baggs project area. However, these figures were not used to determine modeled source locations in the analysis, but only to show the approximate locations of general features within the cumulative impact analysis area. Modeled sources and receptors were located using Universal Transverse Mercator (UTM) coordinates determined from USGS and BLM maps.

Comment Response 25 - The assumed time frames are consistent between the DEIS and the Air Quality Impact Assessment Technical Support Document (Volume I - Appendix A1)

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emissions calculations for rig up/rig down, pipeline construction, and well pad/resource road construction. Because the completion and testing phase (during which flaring will take place) is estimated to occur for a maximum of 15 days, flaring emissions were conservaively calculated for a period of 15 days, 24 hours per day.

The time durations for rig up/rig down, pipeline construction, well pad/resource road construction, and completion/testing reported in the South Baggs DEIS are inconsistent with those used to calculate pollutant emissions in the Air Quality Impact Assessment Technical Support Document (Volume I -Appendix A2). However, because activity duration estimates reported for the CD/WIIPA were greater than those reported in the South Baggs EIS, the CD/WIIPA time durations were conservatively used to calculate South Baggs emission rates.

Finally, the Revised Air Quality Impact Assessment Technical Support Document text (Volume I - 2.1 Construction Emissions) has been revised to clearly describe the completion and flaring emission assumptions.

<u>Comment Response 26</u> - As authorized under NEPA (40 C.F.R. 1502.21 and 40 C.F.R. 1502.24), the BLM provided a detailed description of the methodology used in performing the air quality impact assessment in separate Air Ouality Impact Assessment Technical Support Documents (BLM 1999) and BLM 1999d). The BLM also assembled all air quality modeling imputs, codes, and results onto compact disks. All of these materials were available to the general public upon request, and copies were provided 'for inspection by potentially interested persons within the time allowed for comment.^{*}

<u>Comment Response 27</u> - The Revised Air Quality Impact Assessment Technical Support Document text (Volume I - 4.1 Meteorology and Figure 1.1) has been revised to indicate the correct location of Rawlins, Wyoming.

<u>Comment Response 28</u> - A representative meteorological data set was selected for use in each modeling analysis. The Rock Springs data were selected due in part to Rock Springs's close proximity to the CD/WIIPA. These data also best represent typical regional meteorology conditions in southwest Wyoming, because they exhibit a greater frequency of high wind speeds and persistent wind direction.

The South Baggs surface meteorology data are representative of a small portion of the CD/WIIPA and were determined to be most representative of meteorological conditions at the South Baggs Project area. There are terrain features close to the South Baggs Project area that affect the observed meteorology.

<u>Comment Response 29</u> - The Revised Air Quality Impact Assessment Technical Support Document text (Volume 1 -Table 4.1) has been revised to clearly indicate that the assumed CD/WIIPA background concentrations were based on data collected throughout southwestern Wyoming and northern Colorado.

<u>Comment Response 30</u> - The particulate modeling analysis included emissions from construction activities at a single well site, and concurrent construction of adjoining well sites is not likely; therefore, well spacing was not addressed.

However, the dispersion modeling analyses for CO, NO₂, and HAPs examined production impacts at multiple well sites. For these analyses, the minimum well site spacing as defined in the Proposed Action (and displayed in the Air Quality Impact Assessment Technical Support Document, Volume I - Figure 5.2) was used to maximize potential impacts.

Comment Response 31 - Please see FEIS Section 7.2.84.2, Comment Response 29.

<u>Comment Response 32</u> - The Revised Air Quality Impact Assessment Technical Support Document text (Volume I -Table B1-1.5) has been revised to clearly describe the table's contents.

<u>Comment Response</u> 33 - The Baggs, Wyoming, wind data were initially used in wind erosion calculations for the South Baggs Project area. Due to the similarity in surface disturbance size in the CD/WIIPA, the South Baggs calculated wind erosion emissions were also used in the CD/WIIPA inventory. This assumption resulted in an underestimation of wind erosion emissions in the CD/WIIPA.

The use of Rock Springs wind data would increase wind erosion emissions by approximately 55%. The calculated TSP emissions from well pad wind erosion increase from 123 lbs/hr to 190 lbs/hr, and PM-10 emissions from 61 lb/hr to 95 lb/hr.

This increase in wind erosion TSP and PM-10 emissions would increase the CD/WIIPA modeled concentrations. The maximum modeled total 24-hour TSP concentration would increase from 13.9 μ g/m³ to 149.8 μ g/m³. The maximum modeled total 24-hour PM-10 concentration would increase from 54.8 μ g/m³ to 66.7 μ g/m³, and the maximum total annual PM-10 concentration would increase from 19.8 μ g/m³ to 20.0 μ g/m³.

Both the FEIS text (Section 4.1.1.1 Proposed Action) and the Revised Air Quality Impact Assessment Technical Support Document text (Volume I - 2.4 Wind Erosion Emissions, and Table 5.2) have been revised to include these new values.

<u>Comment Response</u> 24 - As was done for previous NEPA documents and because the reference (Scheffe 1988) would not otherwise be 'reasonably available for inspection by potentially interested persons' (40 C.F.R. 1502.21), the BLM included the most leigibe available cory in the Air Quality Impact Assessment Technical Support Document (Volume I - Appendix E: VOC/NO, Porin Source Screening Tables), Subsequent to your comment, the BLM contacted the author for a more leigible version, but the document is currently out of print. Although the version printed for the DEIS is not perfect, the BLM finds the text completely leigible and would glady meet with the USFS to jointly review the document.

<u>Comment Response 35</u> - As clearly described in the DEIS (Section 4.1.1.1 Proposed Action) and in the Air Quality Impact Assessment Technical Support Document text (Volume 1 - 5.1 Continental Divide/Wamsutter II Near-Field Modeling and 5.2 South Baggs Near-Field Modeling), potential near-field air quality impacts were modeled separately for each Proposed Action. However, for the far-field cumulative analysis (as described in the Final Air Quality Impact Assessment Protocol), given the same likelihood of potential development, both the Continental Divide/Wamsutter II and South Baggs Proposed Actions were combined and reported as "Project Sources." Although dependent on temporal meteorological conditions, distance to sensitive receptors, etc., it is safe to assume the combined predicted "Project Sources" impacts are dominated by the Continental Divide/Wamsutter II Proposed Action (with 3000 wells, five compressor stations, and one gas plan1) rather than the South Baggs Proposed Action (with 90 wells and one compressor station).

<u>Comment Response 36</u> - The Revised Air Quality Impact Assessment Technical Support Document text (Volume II -Figure 3.2) has been revised to clearly show the modeled wind vectors.

<u>Comment Response 37</u> - The Revised Air Quality Impact Assessment Technical Support Document text (Volume II - 4.2 Modeling Grid and Receptors) has been revised as recommended.

Comment Response 38 - Thank you for your comment. As clearly stated in of the Air Quality Impact Assessment Technical Support Document text (Volume II - 4.4 Dispersion Modeling Options), "The relative humidity correction is intended to account for aerosol growth by hygroscopic particles" and "The tabulated relative humidity adjustment factors in the FLAG report (National Park Service 1998) are used to determine F., Unlike the FLAG protocol, however, a maximum relative humidity of 90% has been used in computing F+ rather than 98%, because it is highly unlikely, due to non-uniform cloudiness, that fundamental aerosol and observed visibility criteria (i.e., homogenous atmosphere, uniform sky brightness, etc.) would occur under high relative humidity conditions in the analysis area. The basis for limiting aerosol growth at 90% relative humidity is because optical monitoring devices are not reliable at humidity values above this level. In CALPOST, the FLAG methodology is implemented as visibility method 2."

The basic formula for calculating visibility impacts, developed by H. Koschnieder in 1924, includes the assumption that sky brightness at the observer is similar to sky brightness at the observed object. As described in "Protecting Visibility - An EPA Report to Congress" (EPA 1979) The effect on visual range of inhomogeneous illumination, such as that under scattered clouds, is difficult to analyze by elementary methods. Limited experimental evidence indicates that this effect may not be great for short visual ranges (less than 50 km)"; however, "The studies were conducted in relatively polluted conditions. The effect of scattered clouds or differing sky brightness on visual range in clean areas should be further investigated."

In 1991, the U.S. National Acid Precipitation Assessment Program (NAPAP 1991), in their "Report 24 - Visibility: Existing and Historical Conditions - Causes and Effects" stated "To the person on the street (and to perception investigators), visibility is associated with changes in the appearance of scenic characteristics (e.g., changes in color, loss of detail, or limits on the most distant visible feature). In addition to the optical characteristics of the atmosphere, lighting conditions and intrinsic scene characteristics control the appearance of scenes. Lighting conditions change continually due to variations in sun angle. Scene characteristics (i.e., cloud cover, vegetation, snow cover, etc.) are more erratic than sun angle changes and are generally beyond quantitative measurement or prediction. ... With a number of assumptions and for simple lighting conditions (e.g., no clouds in the sky) scene measurements can be used to estimate optical indexes." The report further stated "there are a number of variables such as sun angle, cloud cover, and scene composition that are firmly integrated into judgments of aesthetic value of a scenic resource. Therefore, studies designed to assess social, psychological, or economical value associated with a given change in atmospheric particulate concentration must be designed in such a way that these confounding variables do not affect the outcome of the experiment."

In addition, the DEIS applied the deciview visual index developed by Pitchford and Malm (1994) to indicate the potential for a "significant adverse" visibility impact. The authors concluded: "a 1 to 2 dv [deciview] difference corresponds to a small, visibly perceptible change in scene appearance where the assumptions used to develop the deciview scale are met." Their assumptions included "that the sky radiance at the target is the same at the sky radiance at the observer" (e.g., no clouds in the sky).

Finally, IWAQM (EPA 1998) makes no recommendation regarding the rejection of transmissometer data "on the basis of RH unless it exceeds ... 98%." IWAQM does state "As noted previously, visibility analyses are compared against a background condition. The estimates of background visibility conditions at Class I areas are derived from the IMPROVE (Interagency Monitoring of PROtected Visual Environments) network. There are several methods of obtaining estimates of the background visibility. These include reconstructed extinction from speciated measurements of particulate matter, direct measurement of extinction with a transmissometer, and estimates of extinction from photographs."

In fact, the IMPROVE "Standard Operating Procedures and Technical Instructions for Transmissometer Systems" (Air Resource Specialists, Inc. n.d.) and the EPA "Visibility Monitoring Guidance" (EPA 1999) both clearly state "When the relative humidity measured at the receiver is greater than 90%, the corresponding transmissometer measurement is flagged as having a possible interference" and "inferring a precise knowledge of the metcorological conditions along a sight path at high relative humidity from a single point measurement is very difficult. When the relative humidity is above 90% at one end of the path, small random temperature or absolute humidity fluctuations along the path can lead to condensation of water vapor causing metcorological interferences. Thus, in accordance with the conservative philosophy expressed above, the 90% relative humidity limit was selected for this test."

Comment Response 39 - Please see FEIS Section 7.2.84.2, Comment Response 32, and Section 7.2.91.2, Comment Response 30. <u>Comment Response 40</u> - The Revised Air Quality Impact Assessment Technical Support Document text (Volume II -4.4 Dispersion Modeling Options) has been revised to state:

"It would be desirable to have a longer time period to include many more meteorological-source impact events than is possible in a one-year data set. The very conservative, but much simpler, multi-year visibility screening analysis (method 2) projected impacts represent an upper estimate of potential air quality impacts which are unlikely to actually be reached."

However, the DEIS included both the very conservative, but much simpler, visibility screening analysis (method 2) and the more refined visibility impact analysis (method 4) results.

Finally, NEPA does not require the use of any specific method, including the USFS "protocols," for assessing potential visibility impacts in sensitive areas. Please also see FEIS Section 7.2.84.2, Comment Response 2, and Section 7.2.93.2, Comment Response 2.

<u>Comment Response</u> 41 - Although conditions may be different on the castern side of the Continental Divide, the availability of measured visibility data to characterize these differences is limited. The method 2 background visibility values provided by the USFS did not distinguish between the eastern and western sides of the Continental Divide. For method 4, the transmissometer data is also only available on the western side of the continental divide, so the assumption that the Bridger data is representative of the entire area is necessary, given the available data. Please also see Comment Response 7, above.

<u>Comment Response 42</u> - The ANC values used for Deep Lake and Lower Saddlebag Lake were those identified in the Final Air Quality Impact Assessment Protocol. Although the revised values do not have any material impact on the results or conclusions, the FEIS text (Table 4.5) and the Revised Air Quality Impact Assessment Technical Support Document text (Volume II - 5.3 Deposition Fluxes and Table 5.11) have been recalculated based on the revised background ANC values provided by the USFS.

<u>Comment Response 43</u> - The Revised Air Quality Impact Assessment Technical Support Document text (Volume II -5.3 Deposition Fluxes) has been revised to include the full set of atmospheric deposition/lake chemistry equations.

<u>Comment Response 44</u> - As clearly described in the Air Quality Impact Assessment Technical Support Document text (Volume II - Appendix C Analysis of Visibility Data in SW Wyoming and NW Colorado) 'the 1995 Mount Zirkel PSD Class I Area enphelometer optical data are flawed, and should not be used in the Continental Divide/Greater Wamsutter II and South Baggs Projects Air Quality Impact Assessment, 'the Mount Zirkel data displayed much greater variability, sometimes up to 100 km changes in a single day. The Mount Zirkel data were especially eratie in the winter months, but even when they 'settled down' in the summer months, the measured visibility values were typically 50 km higher (more Clear) than either the Bridger or Rocky Mountain values. Erratic Mount Zirkel winter values could be consistent with local pollution source impacts and/or atmospheric cleansing by snowfall, and the summertime offset could be consistent with an incorrect assumption of Rayleigh (pure air) scattering and/or a background light absorbing component. Regardless of the cause, the Mount Zirkel data are too inconsistent to properly represent background conditions."

The assertion that 'the only real difference between the data of Mt. Zirkel data ShOWs [Rocky Mountain National Park], is that Mt. Zirkel data shows cleaner visibility' and 'that by erroneously using data to represent Mt. Zirkel, the future visibility impact at Mt. Zirkel from the proposed actions may be greatly underestimated' is plausible given a very simplistic comparison of nephelometer and transmissometer data. However, a more thorough understanding of how these monitoring devices operate (EPA 1999) support excluding the Mount Zirkel nephelometer data.

The Bridger and Rocky Mountain transmissometers measure the actual, total optical extinction observed in the atmosphere over a path length of nearly 4 to 8 km at elevations around 2,500 m. Transmissometers do not modify the atmosphere in any way and directly measure light absorption due to particles (such as soot) and gases (such as NO₂) and light scattering due to particles (both fine and coarse size ranges) and gases (Rayleigh scattering). Most importantly, transmissometers measure the optical characteristics that a human observer would see, that is, a smoke plume or clouds in the sight path will indicate high extinction and low visibility.

The Mount Zirkel nephelometer measures only a portion of light scattering due to particles (abbreviated to a 170°, rather than a 180°, acceptance angle), by drawing a continuous air sample into a nearly 20 x 20 x 25-cm sample chamber at an elevation of around 3,100 meters. Nephelometers cannot measure light absorption due to particles or gasses and measure only a portion of the coarse particle scattering. Since nephelometers are periodically calibrated to "zero" with filtered air, they do not directly measure gaseous (Rayleigh) scattering, and unlike transmissometers, calibration errors are multiplicative rather than additive (Sisler 1996). Finally, and most importantly, nephelometers will erroneously indicate the best (most clear) visibility conditions during precipitation events which remove light scattering particles by wet deposition (e.g., a nephelometer may indicate over 390 km visibility during a snow storm where actual visibility is less than 10 m).

Given these physical differences in the two visibility measuring instruments, the nephelometer will consistently report lower extinction (clearer visibility) than a transmissometer, even if both instruments were measuring exactly the same atmospheric conditions.

Light scattering due to particle growth can be very significant under high relative hundlify (RH) conditions. For example, given an equal and constant concentration of fine (ammonium sulfate) particles, light scattering increases by nearly: Σ at 70%RH, 3x at 80% RH, 5x at 90% RH, 5x at 90% RH, 3x at 95% RH, and over 20x at 98% RH. However, even though both the transmissometer and nephelometer measure increased optical extinction due to particle growth with increasing relative humidity, the interagency IMPROVE protocol identifies transmissometer values measured above 90% relative humidity as invalid due to meteorological interference.

As clearly reported in the Air Quality Impact Assessment Technical Support Document text (Volume II - 5.2 Visibility Impacts), both the Bridger and Rocky Mountain transmissometers measured nearly 5,000 hours of valid data during 1995. Conversely, the "Mt. Zirkel Wilderness Area Reasonable Attribution Study of Visibility Impairment" (Watson et al. 1996) reported less than 4,200 hours of valid nephelometer data in 1995. In addition, the "Attribution Study" presented hourly observed Mount Zirkel nephelometer measurements which fluctuated wildly between 10 and 60 Mm-1, especially during winter periods at greater than 90% RH, and when localized existing sources of sulfate were potentially influencing the nephelometer.

To summarize, given its high sampling elevation and location, it appears the Mt. Zirkel nephelometer (when reporting valid data) was measuring low particle scattering within clouds (above the mixed layer), with occasional intrusions of sulfate from within the mixed layer, during much of 1995. The 1995 Mt. Zirkel nephelometer data were too incomplete and inconsistent to properly represent background conditions.

Comment Response 45 - Comments specific to the South Baggs DEIS are addressed in the South Baggs FEIS.

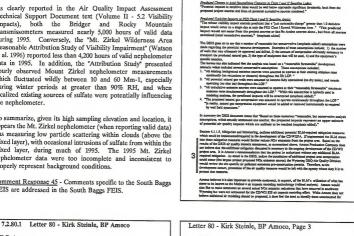
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Page 2 CD/WII DEIS Comments

Page 1. CD/WII DEIS Comment

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BPAmoco

July 14, 1999

Mr. Caire Miller Rawlins Field Offi

Dear Mr. Miller

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Page 4. CD/WII DE1S Comments

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Another example of sexual emission reductions that were not incorporated into the CD/WII EIS analysis are the 1000 tons from the Naughton Power Plant in Lincols County.

The emissions reductions that are domonstrated above are just more examples of the conservative marker of the nanives that was performed for the CDWII BLS at impacts and such statest respons how the impacts predicted and presented is the DBIS represent on "upper estimate of the potential sit quality impacts which are estillably (emphasis added) to analyb be reached."

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Page 5. CD/WII DEIS Come

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Page 6. CD/WII DEIS Comments

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- 18 Reserve pit limer requirements, il implementad, absuld bener define or remote the first builet point on page 4-30, "where solds would not hold thinds." The other bullet points have direct applicability to environmental this prometial and are therefore appropriate.

- (a) possible and the thereting appropriate.
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- 20 To protest surface water from potential depletion, the RLM may require water water is to be defined as the RLM may require water water is to be defined as the RLM may require water water is to be defined as a surface of the protect water resources to be longitificant, to require water water to be defined to be define
- 21 Operators may be required to conduct visual monitoring recommissions of surface waters to detect the is water quality resulting from sedimentation." Please note discussion/comment regarding Amelope and Batter Credit Datasets is above.
- 22 Consultative impact to number and ground water, Section 4.1.7.6 states, "Surface water quality would be protocold using measures statistic to those described for the Proposed Aution, for all other projects in the violative of the CDWIIPA, and then, considerive impacts are autoposed to be implicable." Considering these impact measures entropic for this measure.

Letter 80 - Kirk Steinle, BP Amoco, Page 8 Letter 80 - Kirk Steinle, BP Amoco, Page 10 Page 9. Page 7. Series 4.1.2. Mosting and Queries. Automost Natural, MAA Bounder Montaria Martin 2.1.2. Mosting and Queries. Automost Natural, MAA Bounder Montaria Martinetter, et moltant queries que la construction de la construction de la constru-nction de la construction de la construction de la construction de la constru-tion de la construction de la construction de la construction de la constru-tion de la construction de la construction de la construction de la constru-tion de la construction meter de la construction meter de la construction de l o 4.1.5 Neine Typerater intelests rate provide youting battle continuous on efficient sets of the set of the se 23 The LM may require operating to Josen approved matter than the spatial characteristic to starting starts of the spatial starts and the spatial starts and the spatial starts and the spatial starts and provide starts and the spatial starts and the spatial starts and the spatial starts and the spatial starts and provide starts and the spatial starts and the spatial starts and the spatial starts and provide starts and the spatial starts and the spatial starts and the spatial starts and provide starts and the spatial starts and the spatial starts and the spatial starts and provide starts and the spatial starts and the spatial starts and the spatial starts and provide starts and the spatial starts and the spatial starts and the spatial starts and provide starts and the spatial starts and the spatial starts and the spatial starts and provide starts and the spatial starts and the spatial starts and the spatial starts and provide starts and the spatial starts and the spatial starts and the spatial starts and provide starts and the spatial starts and the spatial starts and the spatial starts and provide starts and the spatial starts and the spatial starts and the spatial starts and provide starts and the spatial starts and the spatial starts and the spatial starts and provide starts and the spatial starts and the spatial starts and the spatial starts and provide starts and the spatial starts and the spatial starts and the spatial starts and provide starts and the spatial starts and the spatial starts and the spatial starts and provide starts and the spatial starts and the spatial starts and provide starts and the spatial starts and the spatial starts and provide starts and the spatial starts and the spatial starts and provide starts and the spatial starts and the spatial starts and provide starts and the spatial starts and the spatial starts and provide starts and the spatial starts and the spatial starts and provide starts and the spatial starts and the spatial starts and predict starts and the s Section 4.1. Neuropei J Barrenne Section 4.1. J Marchen Maller and Marchen Additional Presented III M Barchen Mellandin Bases on common provide la Santest (et internet entities part provent A. Asanting in a scassinal prov-densament en venant de disculted (et internet) entities part provent A. Asanting in a scassinal pro-densament en venant de disculted (et internet) entities parts provent A. Asanting in a scassinal pro-densament en venant de scalardet (et internet) entities parts provent A. Asanting in a scassinal prov-densament en venant en provent de scalardet en venant de scalardet (et internet) entities and the entities and the scalardet entities and the scalardet (et internet) and the scalardet entities and the scalardet entits and the scalardet entiti 24 *Activities meet antive report mast any by problem while is 1.0 al minute works durating but how Parkings 1 more 200 Apr 2.1 - The means discover structure any structure profile discover structure and the profile of profile discover and market and a structure and any structure profile discover and any structure any structure and any structure and any structure and an Section 4.1.3 Wettende sed Riperfes Areas 1.1.11 Magnetics and Montelly Additional Paramital II.M.Ananced Misinetics 1.1.12 Magnetics and Montelly Additional Paramital II.M.Ananced Misinetics Foreign whether the proper new works the state 100 fores. Impacts to swelland out (peaks hadbatts lawe been determined to be implificant. Additional paramital II.M.Anguird miligation is summary. 33 The second secon "Operators, is ecoperation with the BLM, may be required to exertise restore setting and range groups left time of the diginant to the COVITIV to summary that these maticive preserves any protocol discuppion the more than the preserve of the setting of the setting of the setting of the setting of the more than the preserve of the setting of the sett 34 26 levelse 42.4 VHZ Borner
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Letter 80 - Kirk Steinle, BP Amoco, Page 12 Letter 80 - Kirk Steinle, BP Amoco, Page 14 Page 11. CD/WII DEIS Com Pege 13. CD/WII DE1S Comments This section also mans, "Additionally, programmatic agreements unlor discovery plans may be required to be in piece prior to approval of APD's or ROW applications in mens with high densides of calcular lecource sites mere: the hyperbalant," Annou conserve with this produced mignation as large as operators had the shifty to participate and comment no the content of these plans and the plan preparation is done timely to as to no instant timing of Autoinstant, and the shifty of the shif next of rankes of produced verse, gives, or other descents in expendiculy stantific is the diction of the line of the standard s 40 et timing of develop The LLV approximation Opposing to give a subflet bimotion constant as investory of two Original Train. The Section Constant Train Sectio 41 49 Notice 1.4 Bodiessensite III strate damp is the strategies of the strategies methods are noticely in the off-yeeling of the strategies the fitset dimensioner annexes the strategies of the strategies o a 4.4 S 42 Across Provided Corpore approaches de aproximity of provide manages on the Tel Derivational of the Corporation of the Corporat In prefit Properties approaches provinces and anticipation provinces provinces and pro 43 Lake Stile This settion also proposes that, "Operators may be required to reprir or replace fismes and easile guards, gates, diff. Intons, and means learning to minimize markets ILM standards". Amono would agree with this proposed mitigation (for request to replace or replace was the direct result of an Amono (or scher CAG) operatory nation. This suggested mitigation would also be appropriate if its nated that the maintaneas would be required for them haves. Like Bence, carding surface mark (or law likes in the replace trans-mark) bence, and the relation in the state of the state of the state of the state of the state in the replace trans-tate of the state of the state. The state of the sta Mr. Alan R. Plerson Wyoming State Direct Buresu of Land Menter 44 Wyoming State Office P.O. Box 1828 Cheyeres, Wyos nine \$2003-1828

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46 April. all aspects of the environmental analysis indicated impacts to land use and resources associated land use insue, host aurnulatively and from the project propent alone, would be imigatificant. Therefore any additional potential BLA-required militarios is aurnementy.

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7.2.80.2 Letter 80 Comment Response

Comment Response: Entire Letter - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

Comment Response 1 - Comment noted.

Comment Response 2 - The BLM understands that if Alternative A or B are selected, considerable efforts would be required to quantify new and existing disturbance acreage.

Comment Response 3 - Please see FEIS Section 7.2.58.2. Comment Response 1.

Comment Response 4 - As clearly described in the DEIS (Section 4.1.1.6 Cumulative Impacts), "A conservative visibility screening level analysis indicated that proposed project operations might result in a perceptible (1.0 deciview) visibility reduction on very clear days at several of the PSD Class I and II sensitive receptors, therefore a more refined potential visibility impact analysis was performed."

The BLM conducted the very conservative, but much simpler, visibility screening analysis (method 2) to determine if potential visibility impacts within several sensitive receptors was possible. If no potential impacts were predicted using the very conservative method, then no further analysis was necessary. However, because the screening analysis did not preclude a potential for significant adverse visibility impacts and based on the BLM's experience in predicting potential visibility impacts in this region for previous NEPA assessments, the more refined potential visibility impact analysis (method 4) was performed.

The visibility screening analysis (method 2) assumed the 20th percentile cleanest seasonal IMPROVE fine particulate matter data (based on two 24-hour duration samples each week, measured for several years at each site), when converted into reconstructed seasonal extinction values, would represent clear natural background visibility conditions, which could occur every day regardless of actual meteorological conditions. Although this is an 'idealized representation' with 'no physical reality,' it is a simplifying assumption useful for screening purposes only. Please also see FEIS Section 7.29.32, Comment Response 2.

<u>Comment Response 5</u> - You are correct that the visbility screening analysis (method 2) included both IMPROVE fire particulate matter data collected through 1997 and modeled potential air quality impacts from air pollutant emission sources existing prior to 1997. This does represent a 'double counting impacts through modeling and background measurements.' However, given the very conservative nature of the visibility screening analysis (method 2) and considering a more refined potential visibility impact analysis was performed, the over-estimate of potential visibility impacts due to 'double counting' in the screening analysis is not significant.

<u>Comment Response 6</u> - The original far-field emission inventory was developed for use in the refined visibility analysis (method 4), assuming that background visibility data were available for 1995. To be consistent with these background data, the emission inventory included sources permitted from June 1993 through April 1998. Sources that became operational prior to and during 1995 were then removed, or adjusted for startup time, in the final far-field modeling emission inventory.

Based on advisory stakeholder team comments, the BLM included the visibility screening analysis (method 2) in the final air quality impact assessment protocol. The intent of the visibility screening analysis was to perform a preliminary valuation of potential visibility degradation from foreseeable source emissions, possibly eliminating the need for further refined analysis.

Since the background data used in the visibility screening analysis (method 2) included the period 1988-1998 (August), the emission source inventory should have begun 18 months prior to August 1998, or February 1, 1997. Therefore, emission sources that included in the far-field inventory which obtained construction permits prior to February 1, 1997, or that were operational before August 1998 did cause an overestimate of predicted impacts using the visibility screening analysis (method 2).

However, since the refined visibility analysis (method 4) excluded and/or adjusted the final far-field modeling emission inventory (based on actual 1995 optical measurements), "double counting" is not an issue in the refined visibility analysis (method 4).

Comment Response 7 - The Wyoming Interstate Company's Rawlins Station (WDEO-AQD Permit # CT-1287) with nearly 250 tpy NO, emissions should not have been included in the far-field impact analysis. Its NO, emissions were subject to a WDEO-AOD offset reduction with the Colorado Interstate Gas Company's Muddy Gap Station (WDEQ-AQD Permit # CT-1286), which is permitted at nearly 240 tpy NO, emissions. The Rawlins Station should have been identified in the Air Quality Technical Support Document (Volume I -Appendix D: Emissions Inventory - Cumulative Emissions Sources, Table D-3, WDEQ Permitted Sources [Excluded]) and not included in the modeling analysis. By including both sources in the air quality impact analysis, their combined NO_x emissions were overestimated in the air quality impact assessment, further supporting the conclusion stated in the DEIS (Section 4.1.1.6 Cumulative Impacts) "the projected impacts represent an upper estimate of potential air quality impacts which are unlikely to actually be reached."

<u>Comment Response</u> 8 - The far-field analysis emissions inventories were developed for Wyoming and Colorado sources permitted between Juae 1993 and April 1998 and were determined to be non-operational prior to 1995. Sources that obtained WDEO-AOD or CDPHE-APCD emission permits after April 1998 were not included in this modeling analysis. Please also see FEIS Section 7.2-912, Comment Response 22.

<u>Comment Response 9</u> - As clearly stated in the DEIS (Section 4.1.1.6 Cumulative Impacts) "All existing background emission sources were assumed to operate at their existing emission rates continually (no reductions or closures) throughout the LOP [Life of Project]; and further concluding "Based on these numerous 'reasonable, but conservative' analysis assumptions, the projected impacts represent an upper estimate of potential air quality impacts which are unlikely to actually be reached." Please also see FEIS Section 72.91.2, Comment Response 13.

<u>Comment Response 10</u> - The BLM believes that some additional mitigations may be required to ensure impacts are minimized. Final decision regarding the mitigative actions that would be required for this project will be identified in the ROD.

Comment Response 11 - Please refer to Comment Response 10, above.

Comment Response 12 - Please refer to Comment Response 10, above.

Comment Response 13 - Please refer to Comment Response 10, above.

Comment Response 14 - Please refer to Comment Response 10, above.

Comment Response 15 - Please refer to Comment Response 10, above.

Comment Response 16 - Please refer to Comment Response 10, above.

Comment Response 17 - Please refer to Comment Response 10, above.

<u>Comment Response 18</u> - The phrase "where soils would not hold fluids" refers to soil permeability. CD/WIIPA soils are varied. Clay soils, due to their limited permeability, would in many cases not require reserve pit liners; however, in sandy soil areas and in other areas where soils are moderately to highly permeable reserve pit liners may be appropriate to prevent fluids from infiltration. Please also refer to Comment Response 10, above.

<u>Comment Response 19</u> - Additional data on the functional condition of Antelope and Bitter Creeks are available for review at the RSFO. Please also refer to Comment Response 10, above.

<u>Comment Response 20</u> - The potential requirement for water wells to be drilled to depths of greater than 1,000 ft may be applied to provide further assurance that surface waters, which may be in connection with shallow ground water, are protected from depletion. Please also refer to Comment Response 10, above.

Comment Response 21 - Please refer to Comment Response 10, above.

Comment Response 22 - Please refer to Comment Response 10, above.

Comment Response 23 - Please refer to Comment Response 10, above.

Comment Response 24 - Please refer to Comment Response 10, above.

Comment Response 25 - Please refer to Comment Response 10, above.

<u>Comment Response 26</u> - The BLM understands that not all 33 proposed locations may be developed in the crucial winter/yearlong range for the Baggs muledeer herd; however, for the purpose of the EIS, arca-specific disturbance estimates have been applied to provide the reviewer with a reasonable evaluation of the proposed development. The BLM does not think your requested change to the DEIS is necessary.

Comment Response 27 - Please refer to Comment Response 10, above.

Comment Response 28 - Comment noted.

Comment Response 29 - The BLM would not authorize "squeezing" of reserve pits.

<u>Comment Response 30</u> - Comment noted. Please refer to Comment Response 10, above.

Comment Response 31 - Please refer to Comment Response 10, above.

Comment Response 32 - Comment noted. Please refer to Comment Response 10, above.

Comment Response 33 - Please refer to Comment Response 10, above.

Comment Response 34 - Please refer to Comment Response 10, above.

Comment Response 35 - Please refer to Comment Response 10, above.

Comment Response 36 - Comment noted.

<u>Comment Response 37</u> - In the event that bald eagle roosting areas are discovered on the CD/WIIPA, the BLM would consult with both the Operators and USFWS prior to authorizing development activities in the vicinity of the roosting areas.

<u>Comment Response 38</u> - The BLM does not believe changes to the DEIS are necessary. Please also refer to Comment Response 10, above.

Comment Response 39 - Comment noted.

<u>Comment Response 40</u> - In the event that programmatic agreements or discovery plans are required, Operators would have the opportunity to participate in their preparation.

Comment Response 41 - Comment noted.

Comment Response 42 - Comment noted.

<u>Comment Response</u> 43 - Roads would be identified for reclamation utilizing the process as described in the Transportation Plan (see DEIS Appendix B) and associated transportation planning technical support documents (BLM 1999a). Newly constructed roads to well locations that prove to be unecconomic, may be considered unnecessary and reclaimed pursuant to the Reclamation Plan (see DEIS Appendix A).

Comment Response 44 - Comment noted.

Comment Response 45 - Comment noted.

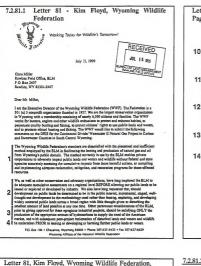
Comment Response 46 - Please refer to Comment Response 10, above.

Comment Response 47 - Comment noted. Please refer to Comment Response 10, above.

Comment Response 48 - Comment noted. Please refer to Comment Response 10, above.

Comment Response 49 - Comment noted. Please refer to Comment Response 10, above.





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The WWF also recommends that the BLM, in this or say future project proposal, some forth with a "Conservation Alternative" in it's DEIS. It should include a recommendation for destrate density of well pade and other failules an wildlift, recentional, or scenes-sensitive lands that do not, according to existing leases, completely prevent industrial structures or activity. Such lands 6 vould include anteiope partariting resea, age grouse nesting and brood rearing a would include anteiope partariting resea, age grouse nesting and brood rearing a writing, and hilicog areas, and established or historie wildlife microtico routes.

The BLM shauld not give approval for this project without surveying historic and ourre

- The BLM analysis of physe segments for the project without interveing harming the data methods of the physical segments 7
- 8 A "Conservation Alternative" could also include the requirement by the BLM to cluster wells using stars-drilling motionogy. The storoloute minimum of industrial facilities on all lends in the project area should be a made objective in any project proposal by the BLM.

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Letter 81, Kim Floyd, Wyoming Wildlife Federation. Page 3

project boundary. Livensek grasing and advar activities in the project area limit sage grouse senting. Will density and associated activities are important to consider and we field that their importance was growing understand in the DELS. We are concerned with increased toxies level which has proven us be definement to age grosse populations and the further destruction and fingumentation of stage groupes habited that well result from that proposed project. We as the 10 au to reevaluate the potential impacts of the project on sage grouse

The WWF also has concern with the pending status of the mountain plover. The mountain plove is being considered for listing as dreastneed by the USFWS as I write these comments. I found very licits memory given as this species in a bo DES in light of the considerable amount of habits found in the project zeros. Given there feats we urge the Burwas to address the impacts on this potential thermaced projects in more details in the TES.

The scale volume of this was zero in geneticers "Nyeming often reserve lists exademized to be EALLy per Veynagis in as of the list team in our coulty the bar restants of "What America Used To Be". Non it evens in our public dominic can be Wildermax, yet many non-Wildermar man have, again unif reservity, ensing the "Wildermax, yet many non-Wilderman Institute... This proposed project rese should not be developed without adequate consideration of the maintenance of dom scenesis:

Our members value their recreational opportunities an our public lands and waters. We field that 13 adversely impacted by this project. It would appear that the BLA has likely, and exploring will be adversely impacted by this project. It would appear that the BLA has likely and exploring the primarily seven the polit margin of multi-inducation domains.

- 14 In light of these inadequately addressed concerna, we feel this project should be postponed or concreted, and that adequate enalysis of the appropriateness of future industrial development on Wyoming's public lands be undersken.

Sincerely, Kuin a. Floyd Executive Director

7.2.81.2 Letter 81 Comment Response

Comment Response: Entire Letter - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

Comment Response 1 - The BLM believes that the cumulative impact assessment presented in this EIS adequately presents the potential adverse effects associated with the proposed project in combination with existing and reasonably foreseeable developments. Furthermore, the reclamation, mitigation, and restoration actions that will be finalized in the ROD for this project would ensure that no unnecessary or undue impacts result from the Proposed Action or selected alternative. Refer to DEIS Section 1.2 for further detail on the multiple levels of impact analyses required for oil and gas development on federal lands.

Comment Response 2 - See Comment Response 1, above. Cumulative impact analyses are conducted prior to leasing during preparation of RMPs for each BLM Field Office (former resource areas). Furthermore, the BLM considered minimization of surface disturbance during preparation of this EIS, and further consideration of surface disturbance would be applied during the APD and ROW application processes. See also DEIS Section 2.5.

Comment_Response 3 - The BLM is not responsible for determining when a proposed development activity is necessary. Once lands are leased, the BLM lacks the authority to prohibit/substantially delay lease development. See also DEIS Section 2.5.

<u>Comment Response 4</u> - Reclamation of disturbed areas occurs only after areas area no longer required for activities. The BLM is obligated under FLEMA to manage lands for multiple resources; therefore, there will be some trade-offs among resources and resource users. See also, Comment Response 3, above.

Comment Response 5 - See Comment Responses 3 and 4, above.

<u>Comment Response</u> 6 - Alternatives A and B, which limit development on federal lands in areas with sensitive resources, are analyzed in this EIS for many of the purposes you mention. Please note that changes have been made in this FEIS such that areas within a 2-mir radius of sage grouse leks are now considered SRAs.

<u>Comment Response</u> 7 - The BLM believes a survey of wildlife migration routes is unnecessary since much of this data is currently available from the WGFD and is presented in the DEIS (see Section 3.2.2.1). Furthermore, the BLM has no control over fences on private lands, there are no extensive fences proposed by this project, and there is no evidence that this project would block wildlife migration routes. See also DEIS Section 4.2.3.1.

<u>Comment Response 8</u> - Directional drilling of multiple wells from one pad could occur under any alternative, and the BLM would not authorize unnecessary and undue actions. See also DEIS Section 2.5.

Comment Response 9 - Please see FEIS Section 7.2.84.2, Comment Response 27.

<u>Comment Response 10</u> - There are an estimated 345,500 acres of probable sage grouse nesting habitat in the CD/WIIPA (see FEIS Table 3.14). The BLM believes that potential impacts to sage grouse are adequately addressed in the EIS. Sage grouse leks and the area within a 2-min radius have been added to the list of sensitive resources in Alternatives A and B, and the BLM now believes that potentially significant adverse impacts could occur to sage grouse under the Proposed Action.

<u>Comment Response 11</u> - Potential impacts to mountain plover are discussed in DEIS Sections 4.2.5 and E-5.2.6.

<u>Comment Response 12</u> - Visual resource impacts are considered in detail in DEIS Section 4.6. Please note that the BLM now considers the potential for a change in landscape character to be a significant adverse impact.

<u>Comment Response 13</u> - Comment noted. The BLM is concerned with all area resources and resource users and will manage resources in accordance with FLPMA directives.

<u>Comment Response 14</u> - Comment noted. The BLM believes that potential project and cumulative impacts and associated mitigative actions are adequately analyzed in this EIS.

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	wlins, WY 82301-2407				
Re	: Draft Environmental Impact St Natural Gas Project	atemeot-Conti	sental Divide/\	Vamsutter II	
De	ar Mr. Millier:				
the	ion Pacific Resources (UPR) is pl following comments on the Cor				
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etter 82 - David S. Petrie, Union Pacific Resources
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HEVENED HEVEN
JUL 15 1999
Introduction
RUPEAU OF LAND MANAGEMENT
Page 1-9
"Based on long-term disturbance acreage required per well for the (CD/WIIPA) (2.77 acres) approximately 1655 wells could be authorized in the RFO-"
3 The words on federal lands should follow 1655 wells.
S The words of the party stored with a feet weak
Union Facific Resources believes the BLM can only suthorize wells with federal
involvement.
Page 1-9
"BLM has the sutharity to modify the siting and design of facilities, to control the rate of
development and timing of activities, and to require other reasonable mitigation- (BLM
Form 3100-11 and 43 C.F.R. 3101.127" The words on federal lands amin should be added after the word facilities.
A words on people inclusion again should be added after the word factions.
Union Pacific Resources believes there are many piaces the words on federal lands
should be added. The BLM has stated in this document that they do not have authority
over private lands, however throughout the document they infer that they do. UPR
requests that the wording "on federal lands" be added as necessary to correct any misunderstanding by the general public to the BLM's sutherity.
a measurement of the Series bacter of the PTW a support.
Page 1-12
"Following exploration and confirmation drilling, the Operators generally know the approximate extent of drilling and arrface disturbance that will be required to fully
5
The word <u>adequate</u> should be added in front of confirmation.
Many times the BLM does not allow an adsquate number of confirmation wells to traiv
determine the extent of the field and/or surface disturbance.
Proposed Action and Alternatives
1 Page 2-8
"Concurrent with new development, a system/database for tallying new disturbance less
6 reclaimed areas would be developed.
Union Patific Resources believes this requirement is clearly the responsibility of the
BLM and should be clearly stated within the above text.
Page 2-9
"BLM would not necessarily dany access to these lands,"
The second
Should read BLM cannot damy scores to these lands,
,

	82 - David S. Petrie, Union Pacific Resources,	7.2.82.2
Page	3	Commen
7	Union Pacific Resources believes the BLM is again trying to lafer sutherity they do not have ever private lands. This informate mideads the public as to the extent of BLM jurialization over private lands.	time to re BLM cor
	Environmental Consequences, Mitigation, and Monitoring	
	Page 4-1	Commen
	However, the BLM lacks authority to enforce these measures on private lends, and in absence of these minipation measures, impacts to many CDWIIPA resources could be significant. Nonethers, the Operators have committed to implementing the proposed project with public safety and environmental executionares throughout the CDWIIPA and for the DO index to autonover preference and agroument 1100. ¹⁰	other bei Please al
	Should read-	Commen
8		BLM be
	Rowever, the BLM lacks authority to enforce these measures on private indi- Union Pacific Resources, an operator and private surface/unional owners in the area is nanowers of any unch Oscitute Averagent to approve inside. Union Pacific Resources	Please se
	and way to any such agreement would be outside the scope of this document, as it does not epply to a federal action.	Commen
	Pige 4-3	developn
	Each Operator may be required to have an individual serve as Environmental Compliance Coordinator.	wells on changes
9	Should be removed-	
	Unice Pacific Resources believes the BLM does not have the authority to require private compenses or individuals to zerve.	Comment the word
	4.1.1.1 Proposed Action	The BLM
	"No violation of applicable state or federal air quality regulations of standards are expected to occur as a result of direct or indirect project-specific air pollutant emissions	land dev
	expectes to occur as a result of direct or indirect project-specific air politikati emissiona (including construction and operation)."	
10	Union Pacific Resources believes the above statement along with a statement recognizing the State of Wyconing-Department of Air Quality as having the authority for sir quality in eculemention with this motion to authorize	(see DE
	e in onejantenne with the project is excessed.	Commen
	Additional Potential BLM Required Mitigation	words "a
	,	Commer
	·	Section 2
		Commer
	r 82 - David S. Petrie, Union Pacific Resources,	as writte
Leffe	r 82 - David S. Petrie, Union Pacific Resources,	

Page 4

- 11 Although additional mitigation beyond the current "operator committed mitigation" is unnecessary. Union Pacific Resources believes the term "on federal lands" must be added to those applicable requirements.
- 12 It is important to note the determination of "no significant impacts" has been found for almost all resources. Wild nite specific EA's to be done on each federal APD any populatial "significant impact" will be avoided. Union Pacific Resources believes it is apparent additional mitigation is eccessive and unmoreasty.

Ution Pacific Resources recommends the BLM approve the EIS Proposed Action with the summar protections for all resources under the committed mitigation. Union Pacific Resources believes the final ESE and ROD behaviol be completed as shown as possible to minimize the need to commence operations during the winter months. This thready action will minimize winter mage sucception requests and occupt winterim operations.

Union Pacific Resources appreciates this opportunity to commant on the proposed Draft Commercial Divide/Warmauter II EIS. If you should have any questions, please feel free to somact David Petric 81 (817)-321-7664 or e-mail at <u>DavidPetric@upr.com</u>.

Sincerviy, David S. Petrie Manger Family Regulatory Analysis

7.2.82.2 Letter 82 Comment Response

Comment Response: Entire Letter - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

<u>Comment Response 1</u> - The BLM believes socioeconomic and other beneficial impacts are adequately addressed in the DEIS. Please also see FEIS Section 7.2.86.2, Comment Response 2.

<u>Comment Response 2</u> - Your comment is noted; however, the BLM believes that your requested text change is unnecessary. Please see DEIS Sections 2.4 and 2.5.

<u>Comment Response 3</u> - RMP-identified reasonably foresceable development accounts for all wells in the planning area (i.e., wells on both federal and non-federal lands). No EIS text changes have been made.

<u>Comment Response</u> 4 - The text has been changed to include the words 'on federal mineral estate'. See FEIS Section 1.2.5. The BLM understands that it has limited authority over private land development and believes the DEIS clearly points this out (see DEIS Sections 2.4 and 2.5).

Comment Response 5 - The text has been changed to include the words "adequate" prior to "confirmation". See FEIS Section 1.2.8.

Comment Response 6 - The text has been changed. See FEIS Section 2.2.

<u>Comment Response 7</u> - The BLM believes the text is appropriate as written. No changes have been made. See Comment Response 4, above.

<u>Comment Response 8</u> - The BLM believes the text is appropriate as written, and no changes have been made.

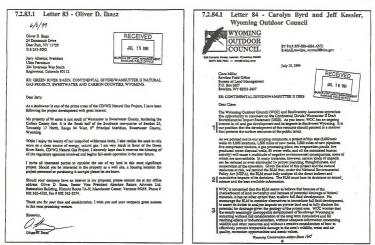
<u>Comment Response 9</u> - The BLM believes the text is appropriate as written, and no changes have been made.

Comment Response 10 - Please refer to DEIS Section 4.1.1 and FEIS Section 7.2.58.2, Comment Response 1.

<u>Comment Response 11</u> - Comment noted. See also Comment Response 4, above and FEIS Section 7.2.80.2, Comment Response 10.

Comment Response 12 - See FEIS Section 7.2.80.2, Comment Response 10.

Comment Response 13 - Comment noted.

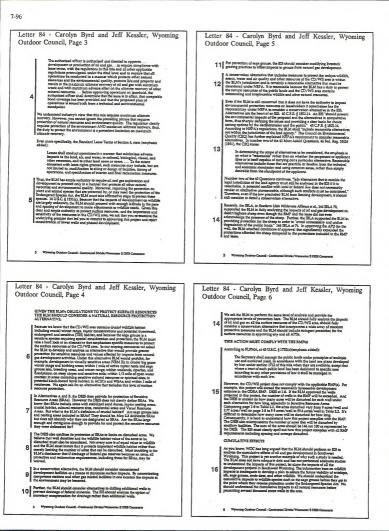


7.2.83.2 Letter 83 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS. <text><text><text><text><text><text><text><text>

Letter 84 - Carolyn Byrd and Jeff Kessler, Wyoming

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Regarding of these each for a region works assessment, the Twinal IDS should descrip point of the second second second second second second second second quality, bit estating, proposed, and restarable former mode have an estateaux sources in the Greenia Green New Testima should be considered (passes see our comments on air quality). For widdlike, the analysis should determine a whether significance estimates assessment as second se 17

PRIVATE LANDS

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Consistent effects analysis may not is lamited to make induct inducts that the RMA subgroups manufacts constrained between a clockers are proved lands, and the constrained movement. The RMS must achieve and discribe the effects of development of impact on the environment which music from the accumental impact of the impact on the environment which music from the accumental impact of the discribed one and the environment which are accumental impact of the environment of the action of the accumentation of the accumental static methods and the action actions that accumentation action action repeated and the action actions that accumentation action dependence of the action actions that action action action action action action action action actions that action action action action action actions action action action actions action action action action action action actions action action actions actions that action action action action action actions action actions action actions actions actions action action actions action actions action action actions actions actions action action actions actions actions actions action actions actions actions action actions actions action actions act

We request that the EIS detail and analyze the effects of all other projects (BLM, other federal spencies, sists, privats, or otherwise) that would lead to comulative affects in and around the analysis area. The EIS must consider past, present, and reasonable foreseeable future action on surrounding state and private lands.

For every issue presented in the DES, the BLM must consider the direct, indire and canulative impacts on private and state lands. This is especially true for comulative direct and species protocols by the Datagenergh Species Ac. The BLM should add extra protocols for all surface resources on heteral land given the direct of development on non-field lands. Additionally development is detain lands will secours get development on non-folderal lands. The BS must consider the effect of encoursigns and tacklishing development. ider the direct, indirect

Similarly, the BLM must consider the impacts of graving rights of way thro non-foderal lands. The establishment of a ROW is a federal action significant effecting the environment and is connected to the proposed project on federa

MONITORING AND MITIGATION FLANS ARE INADEQUATE

In the conset of an ESS, an agency is required to discuss the extent to which adverse effects can be evolved by unitgetion measures. "A more listing of mitagetion measures is studied; set of unity and the attemption discussion projunce (1996) and the advectory of mitagetion of the advectory of the 466, 677 (2014) Carl 1996). Moreover, the adequety of mitagetion measures must be upported by uncessatiliar effections and the advectory of mitagetion measures must study and when based on machine conducted by the agency. National Austrian Society 7: Afginus IR 247 (2014) (1997). 20

7 Wyoming Outdoor Council - Continental Divide/Wameuter 3 DEB Com

Letter 84 - Carolyn Byrd and Jeff Kessler, Wyoming Outdoor Council, Page 8

I hold: NGRA the BLM must use the heat setuible and current information in actions assume an end part of the setuing setuines assumptions to circuits. The A percey must have what is it doing not must all the public what is is doing. NEPA regulations require that public informations here of "high quality Messawa I (ground is starting assumption) which is the setuing a setui 20 expect agency comme NEPA." Idaho Sporting 1900.1(b).

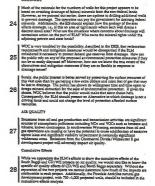
The monitoring prior estimate in the DDS is not based on high quality secures circulatic study as at 16 static study to a support the promoder misging has. The proposed monitoring is no liths, no sintequently. For example, all widdline populations must be monitored more respectivity that every five years to determine impacts and transfer. With tasdequate monitoring, the define of determine impacts and transfer. With tasdequate monitoring, the define of determine impacts and transfer.

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Letter 84 - Carolyn Byrd and Jeff Kessler, Wyoming Outdoor Council, Page 9

DRAINAGE



9 Wyaming Outdoor Council - Continental Divide/Waresitter II DII25 Com

Letter 84 - Carolyn Byrd and Jeff Kessler, Wyoming Outdoor Council, Page 10

WCC asks the BLM to include construction, fixing and blowdown emissions the cumulative air quality analysis. These temporary emissions can have tupe on visibility and edification of sensitive lakes. These sources counts be ignor-ing the cumulative ranjets without misleading the public as to the real impact natural get development.

Visibility Impacts

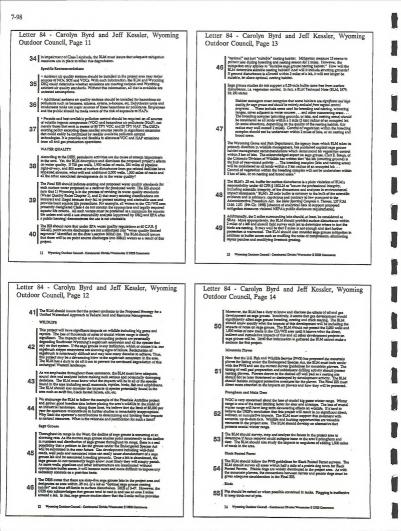
Anamorphic suppression of the second second

- 30
- 31 Strikingly, the BLM used the lavel of concern of 1.0 deciview rather than the agreed upon Porent Service 5 deciview lavel of concern. The BLM must recalculate the lavel of impairment using the 5 deciview figure.

- The second seco 32
- 33 WOC-also quastions the BLM's rejection of the Mt. Zirkel visibility backgrout data in favor of the Rocky Mountain National Park data. The visibility impa should be re-assessed using Mt. Zirkel's background.

Given these problems with the sir quality analysis for this project, the CD/WII protocols should not be used as strategies and should not be followed in subsequent stadies. Entered, we said that the ULM red-of its many's far the Final ES and address our concerns listed shows and any other concerns irragits to the BLM's attaining by other concursations. Mercure, because this project will result

10 Wynning Outdeor Council - Continents Divide/Wasneutter II DEUS Com



Letter 84 - Carolyn Byrd and Jeff Kessler, Wyoming Outdoor Council, Page 15

CULTURAL RESOURCES

The E14 details in this mount halo and fail in type with Natha American Datase to end use the analysis of allowing the American State end and an and periodial datase in the project nam. These where such as proved and analysis of the American State and American and American American State and American American American American techniques and proceeding cultural measures. The E14 Advandar visit with the table, *Routed* among field all periodicity and periodic transportation and a datase under the National Effect of the State of the American Americ

TRANSPORTATION

We are plased to see SLM foculing attention on transportation largery we encourage implementation or the GBAC's recommendations. Analysis of need 557 standards, you want the SLS high of the socialization and standards, you want to be social to the SLS high of the socialization are plain "policy for make" public largery of the SLS high of the previous letter space states of the plant of the SLS high of the socialization are social to the plant of the social to the SLS high of the social sector are social to the plant of the social to the SLS high of the social sector are social to the plant of the social to the SLS high of the social sector are social to the plant of the social to the SLS high of the social sector are social to the social to the social to the social to the SLS.

In sum, we urge the BLM to do all it on to protect the widdlife, where and air pully, when while near presentant apportunities in the CD/WIT sees. We all where the set of the protect in the comparison of a database expectation of the set of the set of the set of the set of the opportunity and a dary to ensitively tailor stratific age development in a matter the minimizes may not obser setupations. We CL also that the Set of the opportunity mather than containing with the balances and "open its employment," the setup of the setup of the setup of the setup of the opportunity mather than containing with the balances and "open its considering our opension".

7.2.84.2 Letter 84 Comment Response

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<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

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Comment Response 1 - Comment noted.

Comment Response 2 - Comment noted.

<u>Comment Response</u> 3 - Comment noted. Three development alternatives and a No Action Alternative are analyzed in this EIS, and the BLM will select one of these alternatives in the ROD for this project. The BLM believes that this EIS fully considers cumulative effects and potential project mitigations (see DEIS Chapter 4.0).

<u>Comment Response</u> 4 - The BLM believes that adequate protection measures have been identified in the EIS to prevent unnecessary and undue degradation and to ensure natural resources and environmental quality would be protected for future generations. We appreciate your succind discussion of BLM's responsibilities under FLPMA and Title 43 of the *Code* of *Federal Regulations*, and we believe that we have satisfied these responsibilities, as well as those of NEPA, in this EIS.

Comment Response 5 - The BLM believes that the measures proposed in the Wildlife Protection Plan and Biological <u>Comment Response</u> 6 - Alternatives A and B were developed to protect sensitive resources, and SRAs now include areas within 2.0 m iof sage grouse leks. However, the BLM cannot deny all development within the areas you have mentioned because leases have already been issued. Furthermore, we do not believe that such restrictions are necessary to give adequate protection to the various resources. Such restrictions would essentially create a no-surface-occupancy situation and preclude the recovery of the oil and gas resources.

<u>Comment Response</u> 7 - SRAs are defined in Section 2.2 of the DEIS. Sage grouse leks and a 2-mb luffer around them have been added to SRAs. The BLM believes that the SRAs are large enough and contiguous enough to protect the sensitive resources on federal lands. Crucial ranges are those defined as such by the WGFD and are generally crucial winter ranges for big game species.

<u>Comment Response</u> 8 - The BLM concurs that not all areas are of equal value to wildlife. That is why we have designated SRAs, which include some of the most important critical wildlife habitats (e.g., raptor nesting areas, sage grouse nesting areas, big game crucial winter ranges). While it is true that under a drainage situation the maximum disturbance acreage requirements may be temporarily exceeded, all other mitigation requirements would remain in force. Furthermore, if disturbance acreage requirements are exceeded, the BLM would require Operators to rectify the situation as some as possible.

<u>Comment Response 9</u> - Concentrated development facilities are a potential component of Alternatives A and B, where it may be used to minimize surface disturbance.

<u>Comment Response 10</u> - As provided in existing leases, monetary compensation is an option; however, the BLM believes this situation would not occur.

<u>Comment Response 11</u> - Comment noted. Grazing practices may be modified as deemed necessary by the BLM; however, these changes will be made outside of the planning process for this proposed project. Recommendations for modifications to grazing practices may be made during implementation of the Wildlife Protection Plan (see DEIS Appendix D).

<u>Comment Response 12</u> - Alternatives A and B were developed for the purpose of giving additional protection to sensitive environmental resources. See also Comment Response 6, above.

<u>Comment Response 13</u> - Please refer to Comment Responses 6 and 12, above. No development on some lands was considered and deemed to be unreasonable for the reasons discussed in Section 2.5 of the DEIS. <u>Comment Response 14</u> - The BLM believes that this EIS adequately discloses the potential impacts of the proposed project on all the surface resources of the CD/WIIPA, fully considers a conservation alternative (Alternatives A and B) and includes appropriate protection/mitigation for the affected surface resources. Required resource protection measures will be identified in the ROD and further specified during subsequent APD and ROW application reviews.

<u>Comment Response</u> 15 - Disturbance acreage estimates are adequately presented in DEIS Table 2.1. The ROD for this project would not authorize development beyond that identified as reasonably foreseeable in the resource area RMPs (see DEIS Section 1.2.4 and the modifications presented in this FEIS).

The 144 acress mentioned was rounded down to 100 acres for ease of analysis. Had the disturbance acreage estimate been 151 acres, upward rounding would have occurred (i.e., 200 acres). In any event, the inclusion of an additional 44 acres would not result in any notable change to the impact analyses presented in this EIS.

<u>Comment Response 16</u> - Comment noted. The BLM believes that cumulative impacts have been adequately addressed in this EIS. The results of the southwest Wyoming evaluation indicate that an EIS analyzing the cumulative impacts of ul and gas development in southwest Wyoming is unnecessary. See also Comment Response 4, 5, and 15, above.

<u>Comment Response 17</u> - As previously stated, BLM believes that the DEIS adequately addresses cumulative impacts. Air quality vershations considered all existing, proposed, and reasonably foreseeable future emissions; significance criteria for wildlife are provided in DEIS Sections 4.23 and 4.25; and cumulative impact assessment areas are shown in DEIS Table 4.1 and Map 4.1.

The DEIS clearly described the proposed and reasonably foreseeable air pollutant emission sources included in the air quality impact assessment, identified potential cumulative air quality impacts, and listed analysis assumptions which "could lead to an under-estimation of potential impacts, but are beyond the scope of the cumulative air quality impact assessment for predicting reasonably foreseeable significant adverse effects on the human environment" (DEIS Section 4.1.1.6 Cumulative Impacts). In addition, the Air Quality Impact Assessment Technical Support Document provided maps of the cumulative air quality impact analysis area (including air pollutant source locations and sensitive air quality area boundaries) and a complete listing of all modeled air pollutant emission source locations and characteristics. Existing air pollutant emission sources were represented in the background air quality conditions, which are also described in the DEIS (Section 3.1.2 Air Quality).

<u>Comment Response 18</u> - Impacts from all known private land developments as well as those from all known past, present, and reasonably foreseeable future actions are analyzed in this EIS.

<u>Comment Response 19</u> - The DEIS considers all direct, indirect, and cumulative impacts for all affected resources on federal, state, and private lands and considers additional mitigations for federal lands. The BLM has considered the impacts of granting ROWs to access non-federal lands under the No Action Alternative.

<u>Comment Response 20</u> - The BLM believes that the mitigation measures and associated plans are adequately presented in the DEIS.

<u>Comment Response 21</u> - Not all resources are monitored every 5 years; rather, some are monitored on an annual basis (see DEIS Table D-2.2). The BLM believes the monitoring levels presented in the widlife plan (DEIS Appendix D) are adequate for identifying potential problem areas.

<u>Comment Response</u> 22 - The BLM believes that sufficient information on wildlife and potential oil and gas development impacts are available to design a monitoring program. Mitigation measures may be modified based on the results of future wildlife monitoring. See also Comment Responses 5 and 21, above.

<u>Comment Response 23</u> - The only thing that would be temporarily suspended under Alternatives A and B to protect federal gas reserves from drainage would be the requirement for specified limits on disturbed lands (see Comment Response 8, above). All other mitigations would remain in place. The wildlife protection plan (DEIS Appendix D) provides for an evaluation (through agency and public reviews) of the effectiveness of mitigation implementation, and additional mitigation may or may not be applied based on monitoring results. All monitoring results would be available for public review.

<u>Comment Response 24</u> - The potential for drainage is described in DEIS Sections 24 and 25. Areas with the potential for drainage cannot be defined until development has occurred; however, in the event drainage is identified, the BLM would take immediate action. Multiple entities own the mineral rights on non-federal lands in the CD/WIIPA; many are owned by the State of Wyoming and UPRC.

Comment Response 25 - Please refer to Comment Response 23, above.

<u>Comment Response 26</u> - Drainage of federal reserves is not a "driving force," it is a consequence of development in an area of checkerboard landownership.

<u>Comment Response 27</u> - As clearly stated in the DEIS (Executive Summary, Page vi), "Since BLM approved activities must comply with all applicable local, state, tribal, and federal air quality laws, statues, regulations, standards, and implementation plans, significant adverse implementation of any of the alternative actions." The technical basis for this conclusion is presented in the DEIS (Section 4.1.1 Air Quality) and the Air Quality Impact Assessment Technical Support Document.

Comment Response 28 - Please see FEIS Section 7.2.79.2, Comment Responses 21 and 35. <u>Comment Resonse 29</u> - Temporary emissions during construction (well pad construction, drilling, completion/flaring, and pipeline construction) were analyzed as described in the Air Quality Impact Assessment Technical Support Document (Volume 1 - Emission Inventory and Near-Field Analysis). However, these temporary emissions were not included in the far-field air quality impact assessment because these emissions would not occur under the cumulative (operation) maximum emission scenario. The maximum emission scenario occurs when al wells are operating simultaneously and total field compression is at maximum levels. Since not all wells require maximum compression awould not occur until after construction activities are completed, several years after the last well goes into production.

Both the FEIS text (Section 4.1.1.1 Proposed Action) and the Revised Air Quality Impact Assessment Technical Support Document text (Volume I - 2.2 CD/WIIPA Production Emissions and 5.1.4 HAP Impacts) have been revised to clearly include potential well blowdown VOC emission impacts (including HAPs impacts). In addition, a calculation error regarding potential formaldchyde impacts reported in the DEIS is corrected in this FEIS. Although the potential 8-hour benzene and formaldchyde concentrations increased, there was no significant change in the incremental long-term cancer risk for a Most Likely Exposure and a Maximally Exposed Individual. No other 8-hour HAP concentrations exceeded the lower end of the states Acceptable Ambient Concentration Levels (AACL).

<u>Comment Response 30</u> - The DEIS neither "downplays and ignores' the conservative visibility screening level analysis results, nor did the BLM use "questionable methods to achieve these results."

The BLM provided a detailed description of both the conservative screening analysis (method 2) and the more refined potential visibility impact analysis (method 4) techniques and results in the Air Quality Impact Assessment Technical Support Document (BLM 1999b) which was available to the general public upon request during the DEIS comment period. The BLM also compared both analyses' results to the 1.0 deciview 'just noticeable change' significance threshold level and the USFS '% of a just noticeable change' 0.5 deciview Limit of Acceptable Change. Please also see FEIS Section 7.2.79.2, Comment Response 2, and Section 7.2.93.2, Comment

<u>Comment Response 31</u> - The DEIS compared the potential visibility impact analysis results to both the L0 deciview 'just noticeable change' significance threshold level and the USFS '4, of a just noticeable change' 0.5 deciview Limit of Acceptable Change. As clearly described in the DEIS text (Section 4.1.1.6 Cumulative Impacts), 'In addition, the USFS, Regions 2 and 4 (Blett 1999), have also identified the following 'Limit of Acceptable Change' regarding potential significant visibility impacts for the PSD Class I and II sensitive areas analyzed: no day greater than 0.5 deciview, calculated on a 24-hour basis. Based on this more restrictive ½ of a 'just noticeable change' level, cumulative operations would exceed the USFS 'Limit of Acceptable Change' on a single day at both the PSD Class I lass Rawah Wilderness Area (1.69 decivitow) and the PSD Class II Savage Run Wilderness Area (0.69 decivitow). These predicted impacts would not occur from the project sources or the 'No Action' sources alone, but from all sources combined (total cumulative sources)." Please also see FEIS Section 7.2.79.2, Comment Response 3.

<u>Comment Response 32</u> - All air quality impact assessment materials presented in the DEIS represent the BLM's 'preferred method' of displaying the potential visibility degradation and not 'industry's." Since method 2 is a very conservative, but much simpler, visibility screening analysis than the refined method 4, it is not surprising that method 4 predicts lower potential visibility impacts. Please also see FEIS Section 7.2.79.2, Comment Responses 3 and 6, and Section 7.2.93.2, Comment Response 2.

The BLM did use the very conservative, but much simpler, visibility screening analysis (method 2) to determine if potential visibility impacts within several sensitive receptors was possible. As clearly described in the DEIS text (Section 4.1.16 Camulative indicated that proposed project operations might result in a perceptible (1.0 deciview) visibility reduction on very clear days at several of the PSD Class I and II sensitive receptors, therefore a more refined potential visibility impact analysis was performed."

NEPA directs the BLM to "succinctly describe the environment of the area(s) to be affected" (40 C.F.R. 1502.15), to "provide full and fair discussion of [potential] significant environmental impacts" (40 C.F.R. 1502.1), and to "present the [potential] environmental impacts of the proposal and alternatives in comparative form, thus sharply defining the issues and providing a clear basis for choice among options by the decisionmaker and the public" (40 C.F.R. 1502.16).

The refined visibility impact analysis used hourly transmissometer optical monitoring data collected during 1995 at both the Bridger Wilderness Area and Rocky Mountain National Park mandatory federal PSD Class I areas in order to define existing background conditions. Since there are a number of 'reasonably foresceable' air pollutant emission sources which were not operating in 1995, their potential visibility impacts were analyzed to establish the future affected environment (adjusted background). Finally, potential visibility impacts from the Proposed Action and alternatives were combined with the adjusted background to fully disclose potential cumulative environmental impacts. Given the mixture of impacts from existing sources, "proposed, but not operating" reasonably foresceable sources, and the Proposed Action and alternatives, the BLM could not use a 5-year average of measured optical conditions.

It is not clear why some agencies prefer to use the visibility screening analysis (method 2) as part of their PSD Permit - New Source Review, but that method: 1) is very easy to apply; 2) represents a conservative (over-estimate) of potential visibility impacts; 3) provides a conservative buffer against possible perceptible impacts; and 4) represents the desired future condition of no manmade visibility impairment in mandatory federal PSD Class I areas. The DEIS did not confuse 'the public by combining the two models without disclosing their results separately and then choosing to display only the results from method 4 that diminish the visibility impacts." Both the very conservative, but much simpler, visibility screening analysis (method 2) and the more refined visibility impact analysis (method 4) were performed and their results clearly reported separately in the DEIS.

However, your statements effectively demonstrate the general confusion among federal land management agencies and the general public regarding the different purposes and interpretation techniques of visibility impact analyses for air regulatory purposes (permit review) and non-regulatory potential environmental impact analysis and disclosure (NEPA review). For air pollutant emission permitting, very specific project design information, very specific air regulatory agency analysis procedures, and federal land management review and comment procedures have all been established (and must be followed) under the Clean Air Act and other applicable air quality regulatory directives. Once a permit is issued, the applicant has permission to operate. Under NEPA, project designs are often preliminary (enhancing a review of alternatives), the specific environmental impact analysis methods are selected based on the specific situation (although the overall analysis process is defined by NEPA), and although the decisionmaker may require specific mitigation measures, the applicant cannot operate until all applicable operating permits (including air quality) have been issued. In summary, both processes use similar analysis techniques (monitored data, dispersion modeling, etc.), but their purpose and needs vary greatly.

Comment Response 33 - Please see FEIS Section 7.2.79.2, Comment Response 44.

Comment Response 34 - Although not required by NEPA, the BLM chose to use an advisory stakeholder process when developing the Air Quality Impact Assessment Protocol (BLM 1998e) describing the methodology the BLM intended to use before conducting the air quality impact assessment. The sole purpose was to enhance "cooperation before the environmental impact statement is prepared, rather than submission of adversary comments on a completed document" consistent with NEPA regulations (40 C.F.R. 1500.5). However, the advisory stakeholder process does not in any way alter the BLM's authority and responsibility to conduct the air quality impact assessment consistent with existing NEPA regulations. When used, each air quality impact assessment protocol must be developed on a case-by-case basis, and no standard protocol is anticipated. Please also see FEIS Section 7.2.79.2, Comment Response 11, and Section 7.2.93.2, Comment Responses 4 and 6.

<u>Comment Response</u> 35 - To the extent that the "NEPA procedures must insure that environmental information is available to public officials and citizens before decisions are made and before actions are taken" (40 C.F.R. 1500.1(b)), the comment that "all that is available are untested assumptions" is correct. However, air pollutant emission limits and ambient air quality monitoring requirements are the responsibility of the applicable air quality regulatory agency, based on their air pollutant emission permit analysis and approval. The U.S. Congress did not grant any federal land management agency air quality regulatory authority. In fact, ever since the original *Clean Air Act* was passed (P.L. 159, dated July 14, 1955), it has been the declared policy of the U.S. Congress 'to preserve and protect the primary responsibilities of the States [Tribal] and local governments in controlling air pollution." Please also see FEIS Section 72.792, Comment Response 1.

<u>Comment Response</u> <u>56</u> - As clearly stated in the DEIS text (Section 4.1.1.1 Proposed Action), "neither the State of Wyoming nor EPA have established HAP standards." Of six chemicals analyzed, only benzene and formaldehyde exceeded the most restrictive 8-hour Pinellas County Air Pollution Control Board (Florida) Acceptable Ambient Concentration Level. Further analysis of the potential incremental long-term cancer risk for a Most Likely Exposure and a Maximally Exposed Individual due to benzene and formaldehyde indicated no potential for concern. Please also see Comment Response 35, above.

Comment Response 37 - Please see Comment Response 35, above.

<u>Comment Response</u> 28 - Existing activities contributing to water quality reductions in the CD/WIIPA are described in DEIS Section 3.1.6.1. Petroleum activities are not identified as the only cause of stream impairment. Rather, a number of factors, including high natural erosion rates in this arid climate, combine to reduce water quality. The BLM believes that project-specific and cumulative impacts to water quality are adequately addressed in DEIS Section 4.1.7.

<u>Comment Response</u>. 39 - No produced water currently is proposed to be discharged into surface waters. We recognize the evolution of water quality regulations and believe that adequate protection for surface waters are included in the DEIS and BLM standard operating procedures.

<u>Comment Response 40</u> - While no point source discharges are anticipated at this time, your comment is noted, and the BLM concurs and would work with the WDEQ/WQD to ensure that no point source discharges are authorized to "water quality limited segments."

<u>Comment Response 41</u> - The proposed project would be in compliance with all existing water quality standards (see DEIS Section 4.1.7).

<u>Comment Response 42</u> - The BLM intends to do everything it can to mitigate the removal of sagebrush in the CD/WITA and to protect sage grouse and the other species that depend upon this ecosystem. Numerous mitigation measures are outlined in the DEIS to this end. However, just as protection of wildlife habitat is a legitimate use of BLM lands, so is oil and gas development.

<u>Comment Response</u> 43 - The DEIS discusses at length the impacts of the proposed project to wildlife species, especially those of most concern to man. These impacts and associated mitigations are presented in DEIS Sections 4.2.3 and 4.2.5 and Appendices D and E.

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<u>Comment Response 44</u> - Baseline wildlife studies were conducted on the CD/WIIPA, and an extensive review of extant data was completed. The BLM realizes that the landscape will change from its existing characteristics under oil and gas development, but to characterize such change as an 'industrial landscape' is an overstatement. The obligation of no more than \$5,000 per year by Operators is an applicant-committed practice, not a decision by BLM. Additional Operator-provided monies have also been identified (see DEIS Tables D-2.1, D-2.2, and D-2.3), and further monies may be required in the future based on impacts observed during monitoring.

Comment Response 45 - Comment noted.

<u>Comment Response</u> 46 - The BLM will identify suitable nesting habitat for sage grouse during the monitoring efforts identified in DEIS Appendix D, as well as during APD and ROW application reviews. Sage grouse leks and an area within a radius of 2-mi is given protection, and these probable nesting areas are now included in SRAs. The area within 0.25 mi of sage grouse leks is identified as potential breeding habitat.

<u>Comment Response</u> 47 - No vegetative control is proposed for the project. Some disturbance would occur, but vegetative control, when applied to sage grouse, generally means extensive chaining, burning, or chemical treatment of sagebrush. This could significantly affect sage grouse habitat; however, nothing like this is proposed for this project.

<u>Comment Response</u> 48 - The BLM does not believe that the 0.25m in o surface occupancy buffer around sage grouse leks is in violation of 40 C.F.R. § 1502.24. This stipulation is quite different than the sipulation that restricts development in suitable nesting habitat within a 2-mir radius around a lek. The two stipulations work together to protect sage grouse during the breeding and nesting season.

<u>Comment Response</u> 49 - The 2-mi area surrounding sage grouse lefts is now included in SRAs. Additional restrictions may be instituted based on the results of monitoring; however, at this time the BLM believes that the existing stipulations adequately protect sage grouse during breeding and nesting and that the application of additional restrictions at this time would be an unreasonable and unjustifiable burden. Additional sage grouse mitigations may be applied as described in DEIS Section 4.2.3.2, and further mitigations may be applied based on monitoring results.

<u>Comment Response</u> 20 - The BLM believes that the DEIS adequately addresses potential impacts on sage grouse and that an informed decision can be made. Where information is lacking, additional monitoring studies have been developed to gather more site-specific data. Furthermore, additional mitigations may be initiated based on monitoring results. <u>Comment Response 51</u> - The USFWS has been consulted regarding the proper procedures for clearances for mountain plover (see DEIS Appendix E), and this information has been incorporated into this FEIs.

<u>Comment Response 52</u> - The BLM has not said that there would be no significant cumulative impacts to big game. In fact, the DEIS on page 4-58 says that there would be potential significant cumulative impacts to the Red Desert pronghorn herd under the Proposed Action. Alternatives A and B were designed, in part, to further protect crucial winter ranges.

<u>Comment Response</u> 53 - The BLM does not believe that a survey to identify all facess is necessary. The project does not propose building fences, and the WGFD is aware of problem fences, some of which may be on private lands over which the BLM has no authority. The DEIS already analyzes the impacts of roads on ungulates (see Section 4.2.3.1). Further information on this subject is provided in FEIS Section 7.2.88.

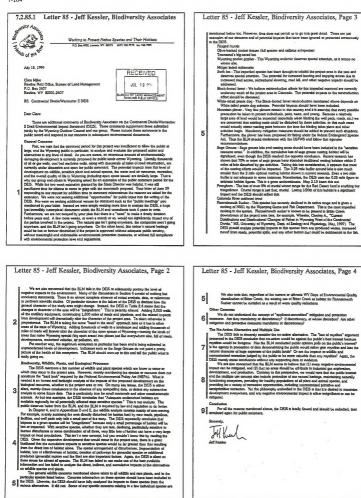
<u>Comment Response 54</u> - The BLM does follow USFWS guidelines for black-footed ferret surveys (see DEIS Section 4.2.5.1).

Comment Response 55 - Comment noted.

Comment Response 56 - Consultation with Native American governmental bodies is required by several laws. Consultation is guided by BLM Manual Handbook H-8160-1, General Procedural Guidance of Native American Consultation. In Wyoming, the BLM views consultation with Native Americans as an ongoing process. The BLM has initiated consultation with the Eastern Shoshone, Northern Arapaho, and the Uintah and Ouray Bands of the Ute Tribe regarding the Continental Divide Wamsutter II project. Consultation efforts will continue at several levels throughout the LOP. Efforts will include general meetings where information is exchanged between the agency and tribes, as well as consultations and field visits when cultural resources of concern to tribes are encountered during the inventory phase of specific developments. The BLM will continue to take the concerns of tribal representatives into account in developing management strategies for the CD/WIIPA.

<u>Comment Responses 71</u> - The BLM considered all potential road impacts in this EIS. A 'no net gain' policy for roads on public lands was not considered reasonable. The BLM considered all previous comments in this EIS, as well as in the development of the Transportation Plan (DEIS Appendix B). The general content of all scoping comments to this EIS are presented in DEIS Section 1.4.2.

<u>Comment Response 58</u> - The BLM manages the public lands for multiple resources and believes that this EIS identifies that the use of the various resources can be balanced in a reasonable way.



9 For all the reasons mentioned above, the DEIS is tataly fewed and should be redraited, then directized again for public comment.

7.2.85.2 Letter 85 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

<u>Comment Response 1</u> - The BLM believes that the DEIS comment period was long enough to allow interested parties to participate, especially in light of the extensive public participation opportunities conducted throughout the entire EIS process.

<u>Comment Response 2</u> - The BLM believes that the negative environmental impacts addressed in the DEIS were, for the most part, adequately portrayed; however, based on the comments received on the DEIS, the BLM has now determined that significant impacts to the character of some CD/WIIPA landscapes could occur, and the text in this FEIS has been changed to reflect this. Furthermore, the BLM does not anticipate these changes in landscape character to be permanent since most disturbed areas, including roads, would be adequately reclaimed after the LOP.

<u>Comment Response</u> 3 - The BLM believes that the statement regarding impacts for small mammals is adequate. No attempt has been made to hide impacts, and negative impacts are anticipated as discussed on DEIS page 4-53 and elsewhere in the document.

<u>Comment Response</u> 4 - Impacts to sensitive species are discussed in detail in DEIS Section 4.2.5, and the BLM believes that with the mitigations described in the DEIS no significant impacts would occur. The BLM is aware that factors other than disturbance acreage can affect the abundance of some species.

<u>Comment Response 5</u> - The BLM believes these species arc adequately addressed in this EIS. Information on these species can be found as follows.

- Fringed myotis. While this species is not known from the CD/WIIPA, if the species were to occur in this area impacts would likely be as described for other myotis species in DEIS Appendix E.
- <u>Olive-backed pocket mouse</u>. This species (including both subspecies) was considered along with other small mammals (see DEIS Sections 3.2.2.2 and 4.2.3.1).
- <u>Townsend's big-eared bat</u>. This special status species is addressed in DEIS Sections 3.2.4.1, 4.2.5, and E-5.1.4.
- <u>Wyoming pocket gopher</u>. This species was considered along with other small mammals (see DEIS Sections 3.2.2.2 and 4.2.3.1), as well as other state-sensitive species (see DEIS Sections 3.2.4.2 and 4.2.5).
- <u>Midget faded rattlesnake</u>. While this species is not known from the CD/WIIPA, if the species were to occur in the area impacts would likely be as described for other reptiles (see DEIS Section 4.2.3.3).
- <u>Swift fox</u>. This special status species is addressed in DEIS Sections 3.2.2.2, 3.2.4.2, 4.2.5, and E-5.1.7.
- <u>Black-footed ferret</u>. Considerable attention is given to this species throughout the DEIS (see Sections 3.2.4.1 and 4.2.5)

and Appendix E). The BLM does not believe this project would have any impact on proposed black-footed ferret reintroduction efforts.

- <u>White-tailed prairie dog</u>. Impacts and mitigations for this species are given special attention throughout the DEIS (see Section 3.2.2.2 and Map 3.11, Sections 4.2.3.1 and 4.2.5.5, and Appendix E).
- <u>Mouniain plover</u>. Considerable attention is given to this species throughout the DEIS (see Sections 3.2.4.1, 4.2.5, and E-5.2.6.). Additional mitigation measures have been included in this FEIS (see Sections 2.6.13.9 and 4.2.5.5) to address your concerns regarding mountain plover nesting on newly disturbed areas. The BLM is conferencing with the USFWS regarding mountain plover and other listed species, and all required mitigative actions will be identified in the ROD for this project.
- <u>Sage grouse</u>. Sage grouse are addressed in DEIS Sections 3.2.2.4 and 4.2.3.2. The BLM is unaware of the publication mentioned; please provide a complete reference for this document. The 0.25-mi buffer around leks is provided primarily to protect breeding activities on leks; an additional seasonal 2.0-mi buffer is provided to protect nesting activities.
- <u>Proghorn</u>. Pronghorn are addressed in DEIS Sections 3.2.2.1 and 4.2.3.1. The DEIS concurs that significant impacts may occur to the Red Desert pronghorn herd (see DEIS Sections 4.2.3.1, Cumulative Impacts, pages 4-57 and 4-58).
- <u>Colorado River cutthroat trout</u>. This species does not occur in the vicinity of the CD/WIIPA.
- Flannelmouth sucker. This species is adequately addressed in DEIS Sections 3.2.4.1, 4.2.5, and E-5.4.2.

<u>Comment Response</u> 6 - Applicant-committed mitigation is included as part of the Proposed Action and alternatives. Operators agree to these mitigation measures as part of their routine operations, and if authorized these measures would be adapted as requirements in the ROD.

<u>Comment Response</u> 7 - The BLM believes that the No Action Alternative is adequately discussed in the DEIS, and this alternative will be considered. While no public opinion polls were conducted, the BLM still believes, based in part on the comments received on the DEIS, that the loss of royalties associated with the No Action Alternative would not be in the public's best interest.

<u>Comment Response</u> 3 - The BLM does not believe that every negative environmental impact can be mitigated, although most can be minimized to prevent them from becoming significant. We do not believe that no areas should be off limits to oil and gas exploration, but we are legally bound to existing lease agreements and must honor the terms of such agreements. Areas are set aside from leasing during RMP development.

<u>Comment Response 9</u> - The BLM believes that the DEIS provides adequate information and that it should not be reissued.

Letter 86 - Marc W. Smith, Independent 7.2.86.1 Petroleum Association of Mountain States All Derver Cab Saudas + 513 (74 Sater + Genner, Ca IPAMS ndependent Petroleum July 13, 1999 RECEIVED Association of Clair Miller Rawlins Field Office JUL 1 9 1999 Mountain Bureau at Land Manage P.C. Bax 2407 States Provins WY \$2301-2402 OFFICIERS & STAFF RE: Draft Environmental Impact State Provident State Ca nental Divide/Warre Natural Gas Project Dear Mr. Miller: IPAMS is a non-profit, non-partisan trade association representing the interests of independent oil and notural gas producers, royally owners, industry consultants, and service and supply comparies operating in a thifteen-state Rocky Mauntain area that Includes the states of Wy Calarada, New Mexico, Mantana, Ulah, Nebraska, North Dakato, Dakata, Nevada, Arizana, Idaho, Washingtan, and Oregan. Nyamii ta, Sau IPAMS appreciates the apportunity to provide the following comments to vice/Warmshild im a sport with a provide the following of ase interested parties working an the effort to create a Draft wice/Warmshild impact Statemant (DBS) for the Cantinentai wide/Warmshilter II (CDWII) Natural Gas Project. IPAMS believes Proposed Action Alternative provides adequate protection of sensitive resource values while providing the most appropriate level at apportunity to explore and develop the mineral In addition the supporting the Proposed Action Alternative, IPAMS would make the following recommendations 1 I. IPAMS recommends that the social and economic analysis be given the same detailed and thoughtfut review as has been given to appects of the

Any and the second statement of Maximum Discover (PAMD) is the regional study exercision in the Territy Minimum. This arguments instruments of and any statement gas printments in a 12-analysis are in the Way.

Letter 86 - Marc W. Smith, Independent Petroleum

7.2.86.2 Letter 86 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

<u>Comment Response 1</u> - The BLM believes social and economic issues have been adequately addressed in the DEIS and that the beneficial impacts to the communities and the nation are appropriately disclosed.

<u>Comment Response 2</u> - The advantages of burning natural gas as emphasized in the *Clean Air Act* amendments of 1990 are stated in DEIS Section 1.1 (page 1-5).

Comment Response 3 - Please refer to FEIS Section 7.2.82.2, Comment Responses 3, 4, and 7.

7.2.87.1 Letter 87 - Conrad A. Lass, Office of Federal Land Policy, State of Wyoming

Office of Federal Land Policy

123 West 236 Boom & Roundor Edge. 1 Was & Copyrent. W F E July 15, 1999 Charte Millier Revelues Field Office Boreau of Land Management PO Book 2407 Ravinins, WY 82201-2407

BUREN OF LAND MALLO SPICE

RE: Draft Environmental Impact Statement, Continental Divide/Wamsutter II Natural Gas Project

Dear Mr. Miller

The option of Preton Land, Paliny has reviewed its informed document on bolid of the Saura of Veynalin, Copier of the dark information and previded to all affords Stans aproxide for that review, in accordance with State Clerengiphone producture. Anather also iterars from the Veynning Gane A. Palin Department, State Engineer J. Office, Wayning Konke, Paling Frank, State Department of Environmental Quality-Ark Quality Visionie, reaution frank that iteratives.

The State of Wyoning supports the orderly and responsible development of own natural resources, as minorals are key component of the consonic base of the State of Wyoning. Marauhon QL company's projection of production in encoses of 600, Othern and in the peak year of this development is an indication of the promise this area holds for residents of both the State of Wyoning and the U.S.

Novever, this promise could be delayed by time-consuming appeals or lidgation if the ESS is not an adequate disclosure document. In an effort to help prevent these delays, the State believe this document could be updated on several issues prior to publication of the FEES.

White links could be distance (CBM) activity was addigated in this tars when takes projects were initially pleased, 2000, and its allowed and the SM CBM of the CBM activity of the SM CBM activity of the SM CBM development will may be the CBM development work in the "secondary threadwide function". This inserrelated to CBM development activity in the "secondary threadwide function". This inserrelated to CBM development activity in the "secondary threadwide function". The inserrelated to CBM development activity in the "secondary threadwide funcion of the insert activity of the secondary threadwide function in the insert activity of the secondary threadwide function of the secondary threadwide function of the secondary threadwide function of the secondary threadwide func-

A On a similar note, the impacts of this natural gas development (and potential CBM development) on potential coal development in the area should be addressed in this analysis

Association of Mountain States, Page 2 Denver Class Banking + Jilt This Server. + 1 IPAMS offected environment. If such analysis were completed, it would be most evident that responsible of and gas development supports the goals and interests of the community and nation. Petroleum 1 Association of PAMS recommends that analysis of affected environment include the 2. PAUS recommands that oncytais of affected environment include the been factal automates that will be adheaded by developing of and gas from the fact. For stature, some mention statud be made about the productions, at a gas the include the made about the productions, at a gas the include and the productions at a gas the include and the productions at a gas and the productions at a gas and the production of the production and the production of the produc Mountain States 2 tes lo more clearly distin 3. PAUS final recommendation relates to more clearly difficulting between that, in which the ILM data and data rule have abuithy over. Throughout the document, there is brighting which serms to earlier the lateral per-imment is outbork to require take of the data control between the service of the service of the service of the abuit of the service of the service of the service of the abuit of the service of the service of the service of the second service of the service of the service of the service mescaling the policy of the service of the service of the second service of the service of the service of the service mescaling the policy of the service of the service of the second service of the service of the service of the service mescaling the policy of the service of the 3 In closing, IPAMS would encourage like BUM to move speedity to release the FEIS and ROD that approves the Proposed Action Alternative. IPAMS appreciates the appartunity to provide these comments. of Lands and Environ

Letter 87 - Conrad A. Lass, Office of Federal Land Policy, State of Wyoming, Page 2 Care Miller

Continental Divide/Warnsutter II DEIS Page 2

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Black Buts has six operad-bat-idled mines near the CD/WII project area, waiding to begin producing should coal markets improve. It is unclear what impact this development and CBM activity will have on air quality permiss for show coal mines, particularly in light of the newlyproposed Regional Hase rules.

5 Landslide and other geologic information and several production assumptions and omissions should be addressed, per comments in the State Geologist's letter.

The Air Quality Division of the Wyoning Department of Environmental Quality (DB) posts that do since that Air Mark Inguity required to be managed as a PSD Casa 3 Area, even though it is not a Montally-deligated Casa 1 even. Language strategate Horizon department, Angel is cality predictions taked on that areas: Language through the Horizon department, Angel is cality predictions taked on that areas: A department may have to be revised, as well. We also easi to at a de document regularia cartefully that the Porest Service's Limit of Acceptible Cange volume on the regularian cartefully that the Porest Service's Limit of Acceptible Cange volume on the regularian cartefully that the Porest Service's

Wyoming Air Quality Standards and Regulations were revised in 1998 to comply with indexal ocone standards. Wyoming now uses an 8-hour ozone standard of 160 µg/m².

We with a highlight de fast that the Air Quality Technical Support Document Volume Inference at the Sociational Working Technical Air Fordmu (WWYTAF) lifetimations and modeling schelagues. That information and modeling have not been fitalized, nor has be Wyening Department of Bavicomenous Quality subtrotted the retistant of sub information fare use in the Condennal Divided Wannater II EIS. Silver this statement is incorrect or that information has been impropriately withink.

The DEQ comments detail air quality-related statements in the DEIS which seed to be substantiated. Additionally, they bring up several modeling quastions. These quastions would aver been best handled in air quality stakeholder protocol meetings during development of this locument, but will now have to be dealt with in this public forum.

Sing grows lake and associate noning having to revolve the set of includes of reaction's recovery. Since a pellow requesting ESA transfer the ange process is strately which ho man flow months, failure to analyze impacts on ange proses and to detail appropriate impactos could due pryopics developments. The same is there for the potential impacts and mitigation for monetain plower, which has already been petitioned for failing. We segant base 2014 percendent work closely with Games A File percenses to alleviate these comments.

While we support development of this natural gas field, we are equally responsible for presenting Wyoming's animul resources. Thus, the implications that realmands negotiments in Ahernatives A. B would be disrupted should potential drinning states arise is, is troublenom. Not only does it essentially elimitate alternatives A and B from serious consideration (which, in an., sected) would be charged of interactives. A but alter automatin the section of the section

Letter 87 - Conrad A. Lass, Office of Federal Land Policy, State of Wyoming, Page 3 Care Miller

Continental Divide/Wamsutter II DEIS Page 3

8 popular with an apparent lack of commitment to mitigation and an inndequate monitoring plan raise concern about BLM's regard for the State's resources.

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10 In addition to the updates and omissions costd above, agenciet have provided corrections to information presented in the DSS for your use in preparing the Final ETS as corrections in the ETS.

While the Stars excludy support development of this sample gas field, we must uphold or mergentilities to low develop its fisser's resource is a sindly sense; and the develop those resources is a environment/-responsible manner. The Stars appreciates yerr usking into execute the concernm remotions cutilities in this item; We would also like to point out that the last semance of the first dip partgraph is column two on page v is incorrect. The Stars of Vyyming two is not load as plan.

The State appreciates the notation that the Wyoming Oil and Gas Conservation Commission regulates spacing.

The Offlin of Federal Land Follow will need six copies of Ature Information and common regarding this project for distribution to affected Sam aqueota. Existing Monocanata Conferenced in the other working approaches with individual aqueotas remain Janea and usaffaced. Position and policy assesses will be forwarded to you by this Office.

Thank you for the opportunity to comment on this important activity. If I can be of any assistance, please do not hesizate to contact me.

Conrad A. Lass

7.2.87.2 Letter 87 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

Comment Response 1 - Comment noted.

<u>Comment Response 2</u> - The BLM believes the DEIS adequately disclosed the nature of the proposed project and associated impacts. Changes have been made in this FEIS where public comment on the DEIS revealed a need and the BLM concurred with the commentor.

<u>Comment Response</u> 3 - The BLM is aware of the recently proposed coal bed methane development; however, the BLM believes that the DEIS adequately accounts for these new developments as reasonably foresceable components in the cumulative impact assessment (see DEIS Table 4.2, footnote 12). In the event coal bed methane proposals become better defined, the BLM would initiate appropriate NEPA analyses for these projects, and when appropriate, the cumulative impact analyses for these coal bed methane proposals would include impacts from this proposed project.

<u>Comment Response</u> 4 - As stated in DEIS Section 4.1.3.1, no coal mining occurs in the CD/WIIPA and it is unlikely that mining in the area would occur during the LOP. Where coal mining occurs within the cumulative impact assessment areas for this project, firm future coal mining actions are included in the impact assessments (see DEIS Table 4.2, foolnote 9). Coal mine emission sources and their effects on AQRVs were included in the far-field air quality impact assessment (BLM 1999b, Appendix A, Table A-2).

Comment Response 5 - Please refer to Section 7.2.90 in this FEIS.

Comment Response 6 - Please refer to Section 7.2.91 in this FEIS.

<u>Comment Response</u> 7 - Sage grouse leks and associated probable nesting habitat are now included as SRAs. Mountain plover habitats would be protected as indicated in DEIS Section E-5.2.6.3. The BLM will coordinate closely with the WGPD to ensure appropriate wildlife protection.

<u>Comment Response</u> 8 - The BLM did not mean to imply that reclamation requirements would be disregarded should potential drainage issues arise. Rather, some of the requirements for the eciling on acres of disturbed lands under Alternatives A and B may be temporarily suspended. In the event that disturbance acreage ceilings are exceeded due to drainage drilling, the BLM would require reclamation to proceed as soon as possible to bring these areas into compliance. The BLM remains committed to adequate reclamation of all disturbed lands under its jurisdiction.

<u>Comment Response 9</u> - The BLM will continue to work with the State of Wyoming in development of minerals on joint estate lands. We did not mean to imply otherwise. 7-108

<u>Comment Response 10</u> - Please refer to FEIS Sections 7.2.88 through 7.2.91, for responses to other state agency concerns.

<u>Comment Response 11</u> - Since no other formal state planning document is available, the BLM has considered the *State of Wyoning* Latad Use Plan (Wyoning State Land Commission 1979) as the State of Wyoning's formal planning document. Please let us know if you would prefer that we not use this document for future NEPA analyses.

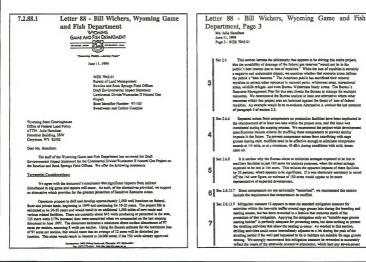
<u>Comment Response 12</u> - Six copies of the FEIS will be provided to your office. Letter 88 - Bill Wichers, Wyoming Game and Fish Department, Page 2

Ms. Julie Hamilton June 11, 1999 Page 2 - WER 7945.01

are added, this would increase the disturbance untilloss to 45,000 acres. We believe this level of disturbance has the potential to significantly impact wildlife resources in this area.

Specific comments:

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2	Sec 2.2	This has the part is get to explain the problems parts (b) for descendence land one explains the problems parts (b) and the problems of except parts (b) and except the problems of except parts (b) and except parts (b) and been induced to the problems of except parts (b) and (b) and (b) and except parts (b) and (b) and (b) and (b) and (b) and (b) and maintains requirements them make to place on the foreign parts (b) and problems of problems (b) and (b) and (b) and (b) and (b) and problems (b) and (b) and (b) and (b) and (b) and (b) and (b) and problems (b) and (b) and (b) and (b) and (b) and (b) and (b) and problems (b) and (b) and (b) and (b) and (b) and (b) and (b) and problems (b) and (b) and (b) and (b) and (b) and (b) and (b) and problems (b) and (b) and (b) and (b) and (b) and (b) and (b) and problems (b) and (b)
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Page 4 - W	ER 7945.01	Pag	e 6 - WER 7945.01				
7	activity from ocsarring within two miles of a lek during the struting period (1 March -20 May in the Red Desert). Development could occar in habitus unauluide for	17	This fact sh developed.	ould be acknowledge	d by the document ar	d uppropriate	mitigation
Sec 2.6.13	nesting during the nesting period (21 May - 30 Jane). 9 The mitigation measures identified in this section appear to address most of the	18	This object	ve is incorrect since	d to have a population the Petition Herd is co	irrently going	through its inits
	wildlife concerns associated with this project, with a few exceptions: Mitigation measure 15 does not address a potential luzzard to mountain plowers that is		will be 250	shjective setting this 350 unimais.	year. If approved by	the Commissi	ion, the objective
	posed by a common gas field development action. The tinaing of plowing and seeding of agricultural fields has been identified as a major hazard to mountain plower		Iropaci Although b	o crucial winter rang a same populations	e is listed as the only are limited by winter	important fac	tor for big game
	populations, since the plowed field serves as a sink to attract nesting plovers who then subsequently lose their nest and any offspriog to seeding activities after nesting has	19	factors coul over-object	d influence population we feral home nonula	n growth rates, espec	ally when ees	mbiood with an
	occurred. A similar process occurs in these gas fields, although on a smaller scale. It		continued n	onitoring of big gan	tion. Again, without ie. it will be impossib	e to detect ch	anges that migh
	is common for operators to prepare a well pad during the fall or winter, in preparation of drilling the site ofter big game, mptor, or sage grouse sensoral restrictions have	1		field development.			
1	pessed. This provides an open, have 2-d-serve field during the plover breeding season that could attract plovers to nest on it. If drilling sear initiated prior to harcharg, the cases and offspring could be lost. We recommend that mitigation trees		3.2.2.4 Sage Grout in 1995 or 1	e: We disagree that 996. We have docur	only 18 of the loks wi nunted at least 20 acti This would not inclu	thin the projection that the second sec	ot area were acti- I portion of the
1	hatching, the nest and offspring could be lost. We recommend that mitigation treet these prepared well pads as suitable nesting habitat and require a quick survey of the	20	project area	north of 1-80 slone.	This would not inclu oriton of the project a	is my of the s	new leks
1	incide prepared were poor as surface meaning manual and require a quick survey or the pool areas prior to development if deliling is to occur during the plover nesting and incubation period.		complete su	mmary of lek antivity	in the project area.		
1	There is no action identified to mitigate for the habitat leaves that are expected to occur during the life of this project. While the total proportions of the project area is not great, loss of crucis) habitats could still have proportionately great imposts on	Sec	nestion hab	tet within the project	ndematimates the am area. The document timal nesting habitat,	states that a 0	25-mile huffler
	not great, loss of crucial habitats could still have proportionately great inspacts on		instead idea	ified a two-mile buf	timal nesting labitat, fer around each lek as emetered hens has sh	containing th	research has se optimal nestin
	wildlife populations. We recommend some means of rotigating the actual acres of loss habitat be included in this large, long-term project.	21	two-mile by	ffer does not advoug	ely delinente ontimal	nesting habits	ers, and that it
Table 7 41	NOISE: As mentioned earlier, the breeding activities of sage grouse are probably		should be in	rger than two miles.	In either case, the 0.3 inderestituates true op	S-mile buffer	employed in thi
	equally sensitive. If not more sensitive, to noises than those for reptors or the stress		a factor of 6	4. A quick look at th	e two-mile buffers sh	own in Map 3	13 shows that a
	severs of winnering by gurne. We contents our concern that says grouse tests and their associated buffers should be included in the Smatlive Resource Areas. We know of no resourch indicating that reducing noises to 60 dBA will prevent the negative		percent clair	cent of the project or med in the Draft.	en is optimal sage gro	use pesting h	abetal, not the 0."
	impacts on breeding sage grouse, and again recommend that equipment be muffled to				is missing the Cornal	ek, discovern	d in 1996 at
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	not be identified as "crucial." We again recommend that an edequate measure of		Springs Plat D-2.4.	within the project ar			
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29	attainment of the goals listed in this document are determined by opinion stid judgment, not empirical data.	40
30	We largely agree with the associatest of indirect inspaces to Big Gauss on pages 4. 519 a 4-55 of the document. The last that few studieshave been made of effects of reads on this in open habituts is already to oblig and development inspaces also identify the labituty within which for the resent was conducted.	4
31	Imports to surgame and smell numerical are residents to be indeputitions. April, we found to does to support the citient, it taked in antiboding on those small mammal import domainstaines may be bounded. The distribution of the state of the state document's inductions may be bounded for the distribution of the distribution document's inductions may be bounded for the distribution of the document's inductions may be bounded for the distribution document's inductions may be bounded and the distribution document's inductions may be document. The distribution of the document's inductions may be bounded and the distribution of the exempts. It would seem from without any date, the boards the Bareau could do is a state that the integrees of small martines and another provide see sufficiency.	42
32	The list of Enduance specific is privately severable download and enduanteed species (line) constraints, which induce any sexual protocol or shall list found in the project zero. Swith Ground and which any sexual protocol and the specific based is also interance. Swith Ground and which constrained and the specific based in the specific based on the specific based on the specific based probable significant sections constrain of the project area in 1995. We did not that any mensioning contrast for which fore lined.	43
33	4.2.3.1 As acted above, the loss of more than five parcent of the crucial winter range for the Red Desert antelope hard would be a significant effect, and could easily prevent this hard from anilaing population objective.	44
34	42.1.1 Additional Promotal Barnas-Required Milippion: This section contains a long law of milippion efform diversel maintaining lappeas an widdlife measures. We see the section of the	45
	Iberally, resulting in the conclusion that impacts will not be significant. It is unasteed what criticate will be used to determine what a mitigation measure will be employed. For the assurance of maintaining impacts to wildlift, we would prefix that these mitigation measures be employed will lifetimal yetters be improved multilitation, with provision and artimits for encepting these measures when they are no longer warranded, or the resource benefit, each solution.	46

	Ms. Julie Hernilton June 11, 1999 Page 10 - WER 7945.01
40	Map 4.7. This map of sage ground letts is minimized to Corral led, discovered in 1998 as NESE 22 T21N R04W and send again by grows in 1999. We have no reacted of any sage ground ledia in the N2 quarter of T22N R04W, and saspect this may be a sypoprish error.
41	Sec 42.5.5 We recommend the mitigation measures proposed for mountain plover include the mitigation of checking any well nod that has been idled during the plover beecking and heating period for presence of plover nexts prior to initiating construction or drilling activates.
42	See D-10 The prediction that the wildlife missionical paths would contribute for a "meximum of 21 years," is to sort you for any position in a diarversityments of this field. If the sort of the sort of the ere retorement in the thirth mission that the engineering and disroctioners phase of this respect, without an excitation templanetic and memory that the provers volume of the mission share. We also memory that the provers volume ensure of any seven schemes are instantiated and to evaluate effectiveness or impact to any seven schemes are instantiated and the structure schemes of any seven schemes are instantiated and the structure schemes of any seven schemes are
43	Map D-1.1. Based upon recent telemetry work with sage grouse hens, particularly associated with gas development in the Pinedale area (Lyon and Anderson 1999), the two-mile buffer around the project area is probably not adequate.
44	Table D-2.1. Based upon records telenostry work with sage grouse hens, percivality associated with gas development in the Pinculse area (Lyce and Anderson 1999), the two-mile buffer around the project area is probably not undequate. We recommend list surveys be conducted following standardi and guidelines for procedures and conditions.
45	Table D-1.2. It tasses in this sublat agreement assistance for protect patients would out extend Sciences and the state of the state of the sublate protection into first a Maining Maintenance Patient's disclosures. From an implementation randomic, it also approximate protections, and with a loss of the Barness space of addances to request comparison to protect acronate any state. If would resent equally isopprotect to find the amount of comparison of the state state space and that the limit may encourage extensive inspects with only a limited responsibility for densing with those imparts.
	Table D-2.3. We recommend the Projection Measure for mountain ployer near/broad avoidance

	88 - Bill Wichers, Wyoming Game and Fish ment, Page 9
June	Julie Hamilton 11, 1999 9 - WER 7945,01
35	4.2.1.1 Currentitive Impacts: We conver with the conclusion have that impacts to the Red. Desert institutions hard are "articipred to be significant." This assessment diagrees with statements made suffer in the document flat impacts to big parce would not be significant.
36	4.2.2.2 None of the nelligible measurus in this proyreal have inderended impacts of powerlates on aging process, but ho is the indicators and or fragmentation of equiphende-traneng haltines. Piscentre of powerlates on aging biological transmission of the provide the power of the powerlate on aging the indicator and or fragmentation of the provide the power and provide the power and provide the power and provide the powerlate on aging the powerlate on the powerlate of the poles, we recommend and powerlates of the working confirm a monthe appearlist on the powerlate on
37	4.2.3.2 The displacement of nesting says grouse heas away from leks disturbed by gas development activities where existing oil and gas injutiations were employed was documented near Pinetalle by Lyons and Andersono (1999) and indicates that these stipulities are probably and always indequate.
38	4.3.2.3 Applicate Committed Measures: An enaitomed series, the mitigation of not semining contractors activities mitis how milling of a loading the brending setton exects to be applied to all lunds within that two-shift endings. So digits on situable sage grouse ensuing shahan. Goly and treading set-Visia have exect, and just the next themselves are of concerni, does is matter what habitat type the distributes will occur in.
Sec	42.3.2 Additional Potential Bureau-Required Mitigation: See comment for Additional Potential BLM-Required Mitigation for Section 4.2.3.1.
39	5.2.2 Consider impact. The part ph/ stars but "to are under distributes works" one without distributes the optimization part part part to the ph/ star but t

Letter 88 - Bill Wichers, Wyoming Game and Fish Department, Page 11 Main Structures Main Struc

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 See common or later to Later on the control within the same in the same of t
- 53 See E-5.2.5.3. Stands of tall Beain stapsbrush should be instanded in surveys for loggerised shrike nests prior to disturbence.
- 54 Sec E-52.6.3 As noted earlier, we recommend that undrilled well pads that have been idle during the breeding and sexting period be treated as potential searing habitat to be surveyed for mountain ploymer mets or houses.

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Monitoring Plan comments

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In Appendix D, the Wildlin Wontowing Plan does not how testiculty wild smapling circuit, specially interpret polycitions or extended only in Jayawi travel. The fever the smapling units, or excasion, the issue the drates a difference and the desceted statistically (ferminal 1990, Competent 1997). That is an orbit you testimation of the state is any wildling opposition and the projects a complex. We should be estimated as statistically derive with wildling population, and define the state of the state of the state of the state of the based on the state of the

We are deeply concerned that he proposed mainting has not been designed in a way to scientifically detect changes in wildlife populations. We are also concerned the Bureau will not, under current sampowere straining, but also in oddith that commitment to be monitoring plan. The Operatment was asked to be a larger percipant in this monomizing plan, but was do not believe we can accomplish the additional hadaw whose percenting works, but we do not believe we can accomplish the additional hadaw whose reprovedings one stating workload.

We want to be clear that we believe the materiality plan is a very important support of the other. Biverconcerness in provide the important of the state analysis of the issues nated in regards to widdle emposes or not backed by definitive matches. The the materials, the monitories of an analysis of the state of the addition. The state of the addition is the state of the stat

In particular, we request that the sage grouse lisk monitoring discussed in section D-2.2.3 paragraph 2 of 6x Wildlife Protection Plane be designed according to the standardized methodology adopted by the Warem States Sage Construct Technical Committee. These data would serve to zonator population levels and tensic on imposted sense weas underwiseped control news. The methodology as wullable from the Department.

We believe the downum should rective self-faulty backet monitoring for those potents of wildlife the self-set as some the set of the

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LITERATURE CITED

Gerredette, T. 1987. A power analysis for detecting trands. Ecology 68:1364-1372.

Lyon, A. G. and S. H. Anderson. 1999. Effect of Gas Development on Stage Grouse Populations -1998 Field Senson Findings. Univ. Wynning Coop. Fish and Wildl. Research Unit. 40pp.

Peterman, R. M. 1990, Statistical power analysis can improve fisheries research and management. Canadian Journal of Aquatic Science 47:2-15.

Aquatic Considerations:

It should be noted in the Environmental Import Statement that the Department of Environmental Quality has proposed to change the classification of Bitter Creek from a Class 4 water to a Class 20 water.

Thank you for the opportunity to comment.

Bill Wichers

BW:TC:as cc: USFWS

7.2.88.2 Letter 88 Comment Response

<u>Comment Response:</u> Entire Letter - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS. Your comments emphasize the need for better cooperation between BLM and WGFD during preparation of future NEPA documents so as to resolve questions such as you have brought up prior to issuance of a draft document. Please be assured that the BLM will continue to work with the WGFD during the development of this and other NEPA analyses.

<u>Comment Response 1</u> - During preparation of the DEIS, BLM did not believe that sage grouse leks required inclusion as SRAs because of the standard protoction already afforded the species under existing stipulations. However, due to the level of comment on this subject during DEIS reviews, we have now included leks and their 2-mi probable nesting buffers as SRAs. Text, tables, maps, and figures have been modified accordingly in this FEIS. The BLM does not believe that additional alternatives analysis is necessary.

<u>Comment Response 2</u> - The only thing that would be temporarily suspended under Alternatives A and B to protect federal gas reserves from drainage would be the requirement for specified limits on disturbed lands. All other mitigation requirements would remain in place. While surface disturbance limitations may be temporarily exceeded due to drainage drilling, in the event this does occur, the BLM would require Operators to rectify this situation as spossible.

Comment Response 3 - The BLM manages lands under its jurisdiction for multiple use; however, this does not mean that all uses receive equal consideration on all lands. Obviously, we have given special consideration to certain lands--primarily those that have special environmental values such as wilderness study areas. crucial winter big game range, sage grouse leks and nesting areas, raptor nests, etc. Recovering oil and gas resources is a legitimate, and in fact congressionally mandated, use of federal lands and contributes to environmental quality by providing, especially in the case of natural gas, a clean energy source. The BLM must constantly balance the various uses of lands under its management, and we believe that the development plans for the CD/WIIPA provide for oil and gas recovery as well as for protection of environmental values. The Proposed Action and Alternatives A and B all provide for environmental protection as well as oil and gas resource recovery, but to various degrees. We see no reason to provide an alternative that further increases the possibility of loss of federal royalties (half of which go to the State of Wyoming).

<u>Comment Response 4</u> - Compressor stations currently operating within the CD/WIIPA generate an average noise level of 39.5 dBA at 0.25 mi (see DEIS Figure 3.3).

<u>Comment Response 5</u> - The figure was rounded to the nearest 100 acres, not in an attempt to minimize surface disturbance acreage estimates. Please note that in Table 2.1 of the DEIS we have rounded all of the disturbance acreage to the nearest 100 acres. Forty-four acres represents approximately 0.2% of the projected new disturbance under the Proposed Action, and its inclusion would not notably change impact analyses.

<u>Comment Response 6</u> - Compressors are considered motorized and would be muffled and maintained to reduce noise levels.

<u>Comment Response</u> 7 - DEIS Section 2.6.13.9, item 13, is: designed to protect probable sage grouse nesting areas. Leks are protected under item 12 in the same section, which states, "Operators would not conduct surface-disturbing activities within 0.25 mi of active sage grouse leks." This is essentially a "no surface occupancy" within 0.25 mi of an active lek at all times, unless a suitable plan is agreed to by the BLM. No construction or drilling would be authorized by the BLM. No construction or drilling would be authorized by the BLM. No is or surface on associated noise may be affecting lek attendance.

<u>Comment Response</u> 2 - Thank you for pointing out the possibility of mountain plover nesting on well pads constructed prior to the plover nesting season, but not being utilized for project activities until after plover nesting is underway. To prevent damage to nests that may be built on such locations, additional mitigations for mountain plover have been included in this FEIS (see Sections 2.6.13.9, 4.2.5.5, D-2.2.2.3, D-2.3.2.3, E-4.1, and E-5.2.6.3).

<u>Comment Response</u> 9 - Some wildlife habitat will be lost both in the short-term and for the LOP as a result of oil and gas development, and some of this habitat is crucial habitat. There is no attempt to hide this fact in the DEIS. Such losses are not permanent-the proposed project has a definite life, after which reclamation and natural processes are likely to return habitats to their previous status. Multiple use means that all resource users must make some sacrifices so that other users are accommodated. Operators would be required to accommodate wildlife needs, and in return some impacts to wildlife would occur, most of which we believe would be insignificant. Timely reclamation would result in habitat replacement within a few years (grasses and forts) or, with shrubs, over a more extended period of time (up to 30 years). In addition, under Alternatives A and B some existing disturbance would likely be reclaimed.

<u>Comment Response 10 - BLM anticipates noise levels to be less</u> than 60 dBA at 0.25 mi and will require muffling to reduce noise levels. DEIS Section 4.1.85 gives the BLM the option to require further mitigation for noise on a case-by-case basis. See also Comment Responses 1 and 4, above.

<u>Comment Response 11</u> - The BLM does not agree that the anticipated project-specific loss of big game crucial range would be significant. We do not agree that the project would negate WGFD's ability to achieve population objectives for the respective antelope, mule deer, or elk herds. See also Comment Response 9, above.

<u>Comment Response 12</u> - As mentioned in Comment Response 1 above, sage grouse leks and nesting areas are now included in SRAs. Also, additional measures may be applied during wildlife monitoring if survey results indicate that they are necessary to provide further protection of sage grouse nesting areas. While we were unable to locate the reference Lyon and Anderson (1999) (discussions with the author, Dr. Stan Anderson, indicated no such report existed), we have reviewed he report by Lyon and Anderson (1998) and do not find evidence indicating "extensive" or significant "impacts to sage grouse nesting habitat, although we do not rule out the possibility that additional years of study may reach that conclusion. However, based on your comments and those of others, the BLM has modified the impact assessment conclusions in this FEIS to indicate that significant impacts to sage grouse could occur.

<u>Comment Response</u> 13 - As previously mentioned, sage grouse leks and probable nesting areas are now included as SRAs. Also, all mitigation pertaining to sage grouse would not be disregarded if there is a threat of drainage of federal gas reserves-only the unreclaimed disturbance limits would be temporarily suspended. The text has been modified in this FEIS to better explain this exception. See also Comment Response 2, above

<u>Comment Response 14</u> - Comment noted; however, the fence in question is privately owned and not under the jurisdiction of the BLM.

<u>Comment Response 15</u> - Comment noted, and the text in Section 3.2.2.1 has been modified in this FEIS to reflect the impacts of fences to mule deer, especially fawns.

<u>Comment Response 16</u> - We have changed "not suitable elk habitat" to "unoccupied" in the text of this FEIS.

<u>Comment Response 17</u> - The displacement of elk from roads depends upon a number of factors, including the timing, amount, and type of traffic and surrounding topography (which may mitigate traffic impacts by limiting the field of vision). In addition, development may not occur in elk habitat to the same degree that it occurs elsewhere. Additional mitigation has been mentioned in DEIS Section 42.3.1.

<u>Comment Response 18</u> - Comment noted, and changes have been made to Section 3.2.2.1 in this FEIS.

<u>Comment Response 19</u> - The BLM does not believe that crucial habitat is the only important factor affecting big game populations. We realize that two very important factors regulating big game herds are weather and hunting regulations. Not only can severe cold and snow affect populations, but so can periods of drought and other extreme or unusual climatic conditions. Hunting may also affect populations, especially if a liberal harvest is followed by a severe winter, which is of course impossible to predict.

The BLM assumes that the WGFD will continue its monitoring program of big game herds. Monitoring big game herds is difficult enough, but assessing the reason for year-to-year population changes is virtually impossible in the short-term. However, if there is reasonable evidence from monitoring that oil and gas development may be having a serious impact on big game populations, the BLM would consider additional mitigations to remedy the situation.

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<u>Comment Response 20</u> - We have updated the sage grouse lek information in this FEIS based on information supplied by WGFD.

<u>Comment Response 21</u> - The BLM agrees and the DEIS indicates that a 2-mi buffer around each lek be considered sage grouse netting habitat, and as stated previously, we have included these areas as SRAs (see Comment Response 1, above). The 0.25-mi buffer around leks is considered optimal breeding (not nesting) habitat. We also concur that some nesting occurs outside of the 2-mi radius; however, the 2-mi radius is generally accepted to represent the area that contains 'most' nesting and that is why we have used it in this document. The text has been modified to reflect this change.

<u>Comment Response 22</u> - We have added the Corral lek to Map 3.13 in this FEIS. The BLM does have a record of the lek in the NE quarter of T22N, R98W.

<u>Comment Response 23</u> - White-faced ibis have been added to the text and to Table D-2.4 and deleted from Table D-2.5 in this FEIS.

Comment Response 24 - Comment noted.

<u>Comment Response 25</u> - It is anticipated that some compression will always be necessary. Compressor stations would be equipped with appropriate equipment to nuffle noise (see Comment Response 6, above). If monitoring indicates that significant impacts to sage grouse are occurring during strutting additional mitigations may be required.

<u>Comment Response 26</u> - Sage grouse leks and a 2-mi buffer have been added to SRAs.

Comment Response 27 - Please refer to Comment Response 26, above.

Comment Response 28 - DEIS Table 4.10 discloses an estimated project-specific 534-acre (0.2%) LOP reduction in crucial winter/yearlong range in the Red Desert antelope herd and an initial disturbance of 1,032 acres (0.4%) of such range. The BLM does not consider such a change a significant impact. The 5.2% reduction in such habitat includes existing disturbance and potential future disturbance within the GCIAA, which is not project-related. In the cumulative impacts section for big game, this 5.2% reduction in crucial winter/yearlong antelope habitat for the Red Desert herd is considered significant. The 5% drop in the Red Desert antelope herd, if it did occur, would mean a reduction in the population objective from 15,000 to 14,250, which may not even be a measurable change given the precision of current population estimation techniques. A 5% reduction in a harvest of 750 animals would result in a harvest of 712 animals. The BLM did consider the 5% reduction in crucial winter range a potentially significant cumulative impact.

<u>Comment Response 29</u> - The BLM concurs that the loss of sagebrush vegetation could continue for 25-30 years until sagebrush returns to its original condition. While sagebrush habitat would be lost to varying degrees during this time, other vegetation-grasses and forbs-would be more abundant. Although grasses and forbs are not a substitute for sagebrush, they would provide additional forage for some wildlife species. Finally, please refer to the Reclamation Plan (see DEIS Appendix A) which does provide for quantifable revegetation objectives.

<u>Comment Response</u> 20 - Because the DEIS presents only the estimated potential displacement distances from all potentially affected habitats, the BLM believes that habitat type descriptions for each referenced study are unnecessary. All references are fully cited in DEIS Chapter 6.0.

<u>Comment Response 31</u> - Absolute numerical changes in populations of nongame and small mammals are obviously impractical to make; however, since no more than 3.2% of any habitat type would be disturbed by the proposed project, the BLM believes it is logical to reach the conclusion that impacts to these species would not be significant.

<u>Comment Response 32</u> - Swift fox have been identified as potentially occurring in the CD/WIIPA (see DEIS Section 3.2.4.1), and protection measures are identified in DEIS Sections 4.2.5.5, D-2.3.2.5, and E-5.1.7.2.

Comment Response 33 - Please refer to Comment Response 28, above.

<u>Comment Response</u> 24 - The ROD for the CD/WIIPA will include those mitigation measures that the BLM deems appropriate, taking into consideration comments from the WGFD and others. Only the Operator-committed mitigation measures mentioned in the DEIS were considered to be applied when making impact determinations. Only the applicantcommitted practices were assumed to be in place. Additional mitigation measures will be applied only if the BLM determines them to be necessary and justifiable to prevent unnecessary and undue degradation.

<u>Comment Response 35</u> - The determination of significance due to cumulative impacts does not disagree with the determination of no significance for project-related activities. Please refer to Comment Response 28, above.

<u>Comment Response 36</u> - While no power lines are proposed for the project, appropriate mitigation for sage grouse is provided in DEIS Section D-2.3.3 (0.6-mi avoidance area).

<u>Comment Response</u> 37 - The BLM agrees that existing stipulations are probably not always adequate to protect all nesting sage grouse; however, we believe that at present they represent reasonable sage grouse nest protection. We do not agree that the recent study (Lyon and Anderson 1998) proves anything conclusively, since there is relatively little data on which to base sweeping conclusions. Please also refer to Comment Response 7, above.

<u>Comment Response</u> 38 - Please refer to Comment Response 7, above. At this time, the BLM does not believe it is necessary to exclude all construction and drilling activities within 2.0 mi of leks; however, these areas are off limits to development during the breeding and nesting periods. <u>Comment Response 39</u> - It is assumed that development on private lands would occur regardless of the BLM's decision on the proposed project (see DEIS Section 2.4). The BLM concurs and the DEIS indicates that where applicant-committed measures are not applied on non-federal lands, impacts could be significant (see DEIS Chapter 4.0, page 4-1, paragraph 1).

Comment Response 40 - Please refer to Comment Response 22, above.

Comment Response 41 - Please refer to Comment Response 8, above.

<u>Comment Response 42</u> - Comment noted. The BLM may require the wildlife plan to continue beyond the 21-year period depending upon plan effectiveness as determined during annual reviews.

Comment Response 43 - Please refer to Comment Response 37, above.

<u>Comment Response 44</u> - Please refer to Comment Response 37, above. Sage grouse lek surveys would be conducted as specified in DEIS Section D-2.2.3.

<u>Comment Response</u> 45 - The Operator obligation of no more than \$5,000 per year is an applicant-committed practice, not a decision made by the BLM. Additional Operator-provided monies would be provided for aircraft costs, and further monies may be required in the future based on impacts observed during monitoring and associated mitigation responses. Prior to the receipt of Operator financial commitments, the Cooperative Agreement for Wildlife Protection Plan implementation would be finalized by participants.

Comment Response 46 - Please refer to Comment Response 8, above.

Comment Response 47 - Please refer to Comment Response 23, above.

Comment Response 48 - Please refer to Comment Response 8, above.

<u>Comment Response 49</u> - BLM personnel are prohibited from liying in fixed-wing aircraft below 500 ft. Furthermore, BLM personnel are aware of the problems associated with sage grouse flushing distances from helicopters; however, new leks have been successfully located by the BLM using helicopter surveys. No text changes have been made.

Comment Response 50 - Please refer to Comment Response 22, above.

Comment Response 51 - Please refer to Comment Response 7, above.

<u>Comment Response 52</u> - Your comment regarding the use of tall stands of basin big sagebrush for nesting by loggerhead shrike is noted. Comment Response 53 - Comment noted. Tall stands of basin big sagebrush would be included in surveys for loggerhead shrike.

Comment Response 54 - Please refer to Comment Response 8, above.

<u>Comment Response</u> 55 - The monitoring program is just thal-amonitoring program, not a scientific study that proposes to detect annual changes in populations. It can at best determine possible long-term trends in wildlife populations. However, observations made during monitoring may lead to more detailed studies of some populations, but such studies are not identified at this time (see DEIS Tables D-2.2). You are correct in assuming that no rigid statistical methods are being proposed in the current studies. Scientific studies, if deemed appropriate by the BLM, would be developed in cooperation with all participating parties.

The BLM is committed to implementing its responsibilities in this monitoring program. We understand that WGFD may not be able to participate at the level originally contemplated due to prior commitments. The BLM agrees with WGFD as to the importance of this monitoring program and the role it would play in responding to potentially adverse effects to wildlife.

<u>Comment Response 56</u> - The BLM has obtained a copy of Sage Grouse Methodology Committee Report on Sage Grouse Management Practices and will consider their recommendations when finalizing the survey techniques to be used in monitoring studies for the CD/WIPA. The BLM anticipates that modifications to the wildlife plan would occur over time, and if appropriate, sage grouse monitoring protocol may be modified to more closely match those adopted by the Western States Sage Grouse Technical Committee.

<u>Comment Response 57</u> - Please refer to Comment Response 55, above. The BLM would like to meet with WGFD to acquire their input on future monitoring/scientific studies in the CD/WIIPA. It is quite possible that additional studies would be required abace on monitoring results and that Operators would be required to adhere to additional measures to protect wildlife resources based on such monitoring. While not anticipated, existing operations and leases could be modified with Operator concurrence regarding proposed changes. Furthermore, future leases and operations may include additional mitigation measures, and the results of CD/WIIPA studies may lead to additional restrictions to Operators at other locations, as well as to lease stipulations in other areas.

Comment Response 58 - Comment noted.

7.2.89.1	Letter 89 - David S. Ben	ner, State	7.2.90.1	Letter 90 - Land	e Cook,	Wyomin	g State
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Ŧ)	State Engineer's Office	AM GERINGER GOVERNOR GORDON W. PASSETT		WYOMING STATE GEOLOGIC. P.D. BOX NES + LARANIE, WYOMING JOING-2216 + FAX NT/NG-2 S-MAIL: MIDIONIC - UNIX - WICK STATE GEOLOGIST - Lance C	122073-3003 105 vsgarmb.gorya.edu	EDDLOGICAL S St (g General Sa Jan J Liberth Lanter Bendi A Bengh Canter M. Lev Atta E. T	NYTY SCALES In Contager Policy L. Basket Case Marco M. Doutger Reason M. Doutger Reason M. Doutger Reason M. Doutger
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			MEMORA	NDUM		June 12, 1999	
Clare Mil	ler ield Office		TO: Julie	Hamilton, Wyoming State Clearing	101260		
Bureau of P.O. Box	Land Management		FROM: L	ance Cook, P.G., State Geologist			
Rawlins,	NY 82301-2407			n Continental Divide/Wamsutter II	Vatural Gas P	roject Draft	
RE: Cont	inental Divide/Wamputter II Natural Gae	Project		(State identifier # 97-105)			
(State ID No. 97-05) Dear Mo. Hiller: The warlow operators of the proposed project will need permits for the walk bound will be drilled. If you or any of the operator boundary operator of the state of the state of the state of constant one downed Water Section 1: the mumber listed below. Excernity.		1 updated productio 8,333 cul cubic fort cumulati- fields is d condonas	5 on page 4-75 has several assumption The first assumption that should be im. Table 4.15 above a varying gas to the fact of gas per barrel of condensate. The version of the several several several several to gas production for Silbernia Ridge, Bivided by the cumulative condensate produce to ratio is approximately 50,000 cul- te. Cumulative condensate produce fact production would lower gross in that production would lower gross in the several seve	changed is the condensate a te and an aver is is much too Echo Springe, production, i the feet of gas p ion should be	te condensate ratio of 2,000 to rage ratio of 6,: low. If the and Wild Rose the averago gas per barrel of closer to 51 m	s 100 to Illion	
	Devid S. Ban		about \$6	hillion rather than the \$14 billion s table 4.15.	ated on page	4-79, using the	1
DS9/db	DAVID S. BENNER Safery of Dans En	ineer	2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	tunie v.o. no mention of natural gas liquids on a should be included. Based on nat Plant at Zaho Springs, the volume o project would yield approximately Prices for condensate in Table 4.15 / Prices for condensate in Table 4.16 / gross income, State and local tax mice for a barrel of condensate of 42	aral gas liquid f gas producti 10 million bar re too high ar to, and Federe 0.27 in 1999 i	is production s on estimated for reis of natural nd will contribu al royalty. Usin is probably at k	t the gas use to g an
			3 Map 2.2 reference	on page 2-3 should be referenced De should appear in the list of reference	Bruin and Be	oyd (1991) and	that
			4 currently	cosed project has potential impacts : planed CBM activities. The area is I southeast of the Jim Bridger mine. as development would impact the co	ocated just es It is not clear	now the proper	ced.
	Surlage Water Ground Water Board of Cent (\$27) 777-6475 (\$271 777-6163 (\$207) 777-617	7		Sarring Rynning Sin	- /811		

7.2.89.2 Letter 89 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS. The need for Operators to contact the State Engineer's Office regarding ground water utilization (water well drilling) is acknowledged in DEIS Table 1.1 and Section 2.6.136 (item 14). Letter 90 - Lance Cook, Wyoming State Geological Survey, Page 2

4	Bridger coal first power plant, mainly in respect to air quality permits, and particularly under the new proposed Hase rules. Currently the Black Butts mino bas at least 6 pits opened and on standby, hoping for an improvement in the area's coal markets, and is producing in 3 other plan.
	Coal bed mechanic (EMI) research only assumption contains: in the documents (page 131). This is a understanded by the very dimension of the DM are shown (1968). The document of the DM are shown (1968) and the document of
6	In table 5-1 (Consultant and Preparer List) Laura Larsen's last ranne should be changed to Hallberg for current correctness. Gary Glass should be listed as the past Stars Geologist.
7	On pages 3-17, section 3.1.4.3, there are a few typicater that are needed. The increme care waith systems in the South Gravit Mountain fault system, not the North Gravita Mountain system. The Geological Survey has meeting recognitized a densided standardised in density of the system system of the South South South South South South South South South South supplied upon request. In addition, instabilities inverse been mapped in the stars. They are shown on a dwirt copy of the survival program gas of the Red Desart Sakin 1.100,000-casie quadrangis A copy of the map will be supplied upon request.
	If there are questions an our comments, please direct them to the sproprofess geoingtics can small for to an. Rod De Hulin can address specific oil and gas comments, Bob lyman is our coal sepert, and Jim Mater Development Commission.
	Serving Hymning Same 1823

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7.2.90.2 Letter 90 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

<u>Comment Response 1</u> - Table 4.15 and associated text have been revised in this FEIS to reflect the provided gas to condensate ratio.

<u>Comment Response</u> 2 - The gas and condensate price information provided in the DEIS were approximations, and while the prices presented may be high for 1999, no changes have been made since these prices vary widely and the BLM anticipates gas and condensate prices will continue to escalate. The information provided regarding natural gas liquids production is included in this FEIS.

Comment Response 3 - Appropriate changes have been made to Map 2.2 and Chapter 6.0 of this FEIS.

Comment Response 4 - Please refer to Section 7.2.87.2, Comment Response 4, in this FEIS.

<u>Comment Response 5</u> - Please refer to Section 7.2.87.2, Comment Response 3, in this FEIS.

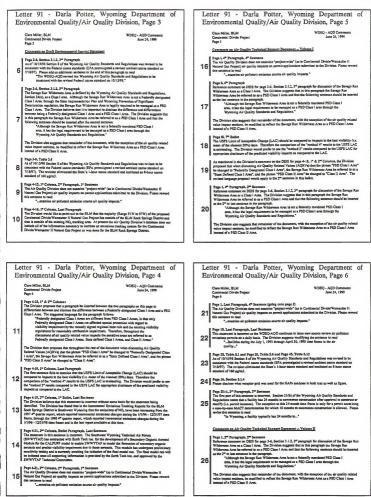
<u>Comment Response 6</u> - Your suggested changes have been made to Table 5.1 in this FEIS.

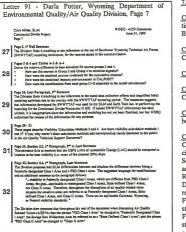
<u>Comment Response</u> 7 - The name of the fault system has been changed in this FEIS. Furthermore, we have reviewed recent seismology and landslide information provided by your office; however, the BLM believes no changes to the DEIS are necessary.

- AL

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GOVERS	Department of Environmental Quality
ACANALISTE	Herachier Building e 122 West 25th Street e Cheyenne, Wyoming 52002 mox Aswpowebweets an outurn existence sheet outurn south a women and a women were outurn
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	July 12, 1999
	hrough: Julie Hamilton, Wyoming Office of Federal Land Policy
	fr. Clare Miller
	ISDI-Bureau of Land Management Lawlins Field Office
	.O. Box 2407
	lawlins, WY 82301-2407
P	le: Continental Divide/Wernsutter II Draft Environmental Impact Statement
	Deer Mr. Miller:
S	Te Air Quality Divisios (AQD) of the Wyoming Department of Environmental Quality WDEQ) has eviewed the Draft Environmental Import Statement and Air Quality Technical apport Document for the Comments Divide Warmanster II Netural Gas Project. Attached you uli fland the Division's specific comments.
1	In the document of a Singer Jian Willcomm A rule in formed to as 1.8210 Cast H Are solids in the Berguinton Cast Tar Singer Jian Willcomm A rule in factor by the Warning AAV cast Jian Berguinton A rule in the Berguinton Singer Jian Berguinton A rule in the Singer Jian Berguinton A rule in the Singer Jian Berguinton A rule in the Singer Jian Willcomm A rule in the Singer Jian Willow AAV (Singer Jian Area and Singer Jian Berguinton A rule in the Singer Jian Willow AAV (Singer Jian Area and Singer Jian Willow Area (Singer Jian Area and Singer Jian Area and Singer Jian Willow Area (Singer Jian Area and Singer Jian Area and Singer Jian Willow Area Area and Area and Area
	the phrase "PSD Class I Area" be changed to "Federally Designated Class I Area", the Savage Run Wilderness Area be referred to as a "State Defined Class I Area", and the phrase "PSD Class II Area" be changed to "Class II Area".

	tter 91 - Darla Potter, Wyoming Department of vironmental Quality/Air Quality Division, Page 2 Generation United DEIS Data
2	raps - I would like to bring to your attention that as of 10/15/98 Section 8 of the Wypening Air Quality Standards and Regulations was revised to be consistent with the Federal outcos standards (EFA promaigned a revised ambient outcos standard on 7/18/97). The revision eliminate the State's Holer course transisted and instituted an Holer cores standard of 160 gapts.
3	The documents (injuring that is limits of Assertable Change (LAG) have been established by ex- US forms: Strive (poly) for realizing injustra to AC Could Fastmant Values in Wittenam Areas to full us mension that to ACA use not regularcy limits or standards. Follow to disclose the LACAs on on explanatory limits of standards and just dis a vaning reader into bioliving that an air quality standard or limit is being violated based on the results of the visibility impoct analysis.
4	The Division flucks it studding to see references in the AA Coully Technical Support Document Volume II to bus on Southow Wywards Technical AP Source (SWWYAPA Information and modeling sensingues, If stadeed SWWYAPA Information has been utilized, it is improprint as index of the subpraction calls drive the two flucks and the SW DEQ authorized due release of the information to the BLM or Earth Tech lace. For use in the Constraint Division Wards and the SW DEQ Sources in the Constraint Division Wards and the set of the subpraction and the SW DEQ Sources Division Wards and the SW DEQ Sources Division of the MELM or Earth Tech lace. For use in the Constraint Division Wardset II SW DEQ Sources Division of the SW DEQ Sources Division of t
5	The Divides' scenarios while news limit dut were not discussed by the A-E Quily distanciation, as the option minimized result in the prime and the second scenario and scenari
	If yos should have questions regarding the comments, please feel free to contact this office.
	Sincerely,
	Pulgette
	Darles Potter Visibility, Sancias Management, & EIS Coordinator Air Quality Division
	oc: Dan Olson, Administrator Bernie Dalley, NSR Program Manager Mary Throne, Senior Arsistant Amorney General





Letter 91 - Darla Potter, Wyoming Department of Environmental Quality/Air Quality Division, Page 8

Clare Miller, BLM Continental Divids Project

WDEQ - AQD Comm June 24, 1999

35

Page 35, 3" Paragraph The USPS Limit of Acceptable Change (LAC) should be compared to impacts to the best visibility (i.e. mean of the cleanest 20%) days. Therefore the comparison of the "method 4" neuros to the USPS LAC 33

34 Appendix A What was the basis for the NG/NO, ratio of 14.567

ndix B, Pages S-1 - B-4

Appendix 3, Pages 3-1 8-4 This source aggregation method was not proposed in the 9/28/96 protocol. The Division has seven questions reparking the source aggregation method, as this one compromet of the analysis (forecome aggregation) any incroduce a potential for errors that can not easily be found or understood. are appendix the source regression of the source and the source a

7.2.91.2 Letter 91 Comment Response

Comment Response: Entire Letter - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

Comment Response 1 - Please see FEIS Section 7.2.79.2, Comment Response 12.

Comment Response 2 - Please see Comment Response 8, below.

Comment Response 3 - Please see FEIS Section 7.2.79.2, Comment Response 4.

Comment Response 4 - Please see Comment Response 27, below.

Comment Response 5 - As described in FEIS Section 7.2.79.2, Comment Response 10, in a few instances, based on unforeseen circumstances after the Final Protocol was issued (on September 28, 1998), the BLM modified the air quality impact assessment procedures. These changes are described in the Revised Air Quality Impact Assessment Technical Support Document (BLM 1999d) and were discussed at a preliminary results presentation for the BLM's Wyoming State Director (held February 16, 1999). While holding additional advisory stakeholder team meetings between September 8, 1998, and February 16, 1999, may have alleviated some individual stakeholder team member concerns, the BLM determined that additional meetings were not necessary to complete its air quality impact assessment obligations under NEPA.

Comment Response 6 - Please see Comment Response 8, below.

Comment Response 7 - Please see FEIS Section 7.2.79.2, Comment Response 12.

Comment Response 8 - The FEIS text (Section 3.1.2, Air Quality and Table 3.6) and the Revised Air Quality Impact Assessment Technical Support Document text (Volume I - Tables 5.1, 5.6 and 5.13) have been revised to clearly indicate the new ozone standard.

Comment Response 9 - The FEIS text (Section 4.1.1.1 Proposed Action and 4.1.1.6 Cumulative Impacts) and the Revised Air **Ouality Impact Assessment Technical Support Document text** (Executive Summary and 1.0 Introduction) have been revised as recommended.

Comment Response 10 - The FEIS text (Section 4.1.1.5 Mitigation and Monitoring) has been revised to clearly indicate that most of the proposed NO_x emission sources would not be included in the existing tracking agreement and that either a mutually acceptable revision or a separate agreement would be required to include those proposed emission sources.

Comment Response 11 - Since the Air Quality Impact Assessment analyzed potential visibility impacts at both PSD Class I and Class II sensitive areas, and the DEIS (Page 4-20) clearly stated "there is no applicable state or federal regulatory visibility standard," the FEIS text has not been revised. However, both the FEIS text and the Revised Air Quality Impact Assessment Technical Support Document text have been revised to clarify the status of the Savage Run Wilderness Area. Please also see Comment Response 32 below and FEIS Section 7.2.79.2, Comment Response 12.

Comment Response 12 - The USFS has requested that all NEPA analyses be compared to their "% of a just noticeable change" 0.5 deciview Limit of Acceptable Change.

<u>Comment Response</u> 13 - The FEIS text (Section 4.1.1.6 Cumulative Impacts) has been revised to clearly indicate that a reduction of No, emissions from existing sources in southwestern Wyoming is anticipated, primarily due to the installation of additional control devices on the Naughton coal-fired electrical generation facility.

<u>Comment Response 14</u> - The FEIS text (Section 4.1.1.6 Cumulative Impacts) has been revised to indicate SWWYTAF is developing a secondary organic aerosol model, but it is not currently available for use.

Comment Response 15 - Please see Comment Response 9, above.

Comment Response 16 - Please see Comment Response 9, above.

Comment Response 17 - Please see FEIS Section 7.2.79.2, Comment Response 12.

Comment Response 18 - Please see Comment Response 12, above.

Comment Response 19 - Please see FEIS Section 7.2.79.2, Comment Response 12.

Comment Response 20 - Please see FEIS Section 7.2.79.2, Comment Response 12.

Comment Response 21 - Please see Comment Response 9, above.

<u>Comment Response 22</u> - The Revised Air Quality Impact Assessment Technical Support Document text (Volume I -2.5 Emissions Inventory - Cumulative Emissions Sources) has been revised as recommended.

Comment Response 23 - Please see Comment Response 8, above.

<u>Comment Response 24</u> - As clearly described in the Air Quality Impact Assessment Technical Support Document text (Volume I - 5.1.4 HAP Impacts), "Short-term concentrations were modeled at receptors spaced within 100 m of the well sites and compressor station permit boundary, which represents the closest location any individual would be for an entire 8-hour period. The long-term HAP modeling assumes that the nearest residence is 4,000 m away from the gas plant and compressor facility, and 500 meters from the nearest well." In addition, Figures 5.3 through 5.6 have been added to the Revised Air Quality Impact Assessment Technical Support Document text (Volume I - 5.1.4 HAP Impacts) to show the HAPs modeling receptor grids.

Comment Response 25 - The Revised Air Quality Impact Assessment Technical Support Document text (Volume I -Appendix D1) has been revised as recommended.

Comment Response 26 - Please see FEIS Section 7.2.79.2, Comment Response 12.

<u>Comment Response 27</u> - The overlap of the CALPUFF modeling domains and the use of the same modeling techniques in both studies was very clearly and openly discussed at the protocol meeting with WDEQ-AOD's full knowledge and participation. In addition, the WDEQ-AOD gave the BLM written permission to release the MM5 data produced under the SWWYTAF study (Olson 1998). Given the location and nature of both modeling studies, it is not surprising that some of the same information was used in both studies. However, no proprietary SWWYTAF information was used in the CD/WIIPA air quality impact analysis.

<u>Comment Response 28</u> - As clearly described in the Air Quality Impact Assessment Technical Support Document text (Volume II - 2.0 Emissions Inventory), "The source inventory has been divided into five source groups for the far-field modeling" Source Group 2 and Group 4 were not modeled together. Each of the five source groups were modeled separately using five CALPUFF runs. The partial plume path terrain adjustment factor allows source puffs to be emitted at one terrain elevation yet impact receptors at another terrain elevation. Following the completion of the CALPUFF modeling, the five source group concentration files were combined (cumulative impacts) at each receptor using Earth Tech's post-processing software. To determine contributions from each of the source groups, six separate CALPOST runs were made (one for each source group and the combined (tatel cumulative analysis).

Comment Response 29 - Please see Comment Response 27, above.

<u>Comment Response 30</u> - Method 1 is the original, Phase I IWAQM methodology. It has been replaced by method 2.

Method 2 uses the mean of the 20% cleanest seasonal visibility conditions (extinction values reconstructed from two IMPROVE 24-hour fine particulate mass concentration samples per week), which were assumed to occur on every day during an entire season (a conservative assumption in predicting the frequency of visibility impacts). This method therefore inherently separates the meteorological conditions which occurred in determining the "cleanest" background, and those conditions applied in the modeling analysis. Unlike the IWAQM protocol, the analysis performed for this EIS limited observed relative humidity levels to 90% (e.g.: 91-99% values were set to 90%).

Method 3 is the same as method 2, except predicted impacts are eliminated whenever the relative humidity (RH) exceeds the maximum allowed (RHMAX), rather than capping the RH at RHMAX, as in method 2. Method 4 compares directly observed hourly extinction values measured with an IMPROVE transmissometer, with bourly modeled extinction values calculated from the predicted primary and secondary particulate matter concentrations, adjusted for bourly relative humidity levels, interpreted on a daily basis.

There is also a method 5, which is the same as method 4 except that it uses IMPROVE nephelometer data rather than transmissometer data.

Comment Response 31 - Please see Comment Response 12, above.

<u>Comment Response</u> 32 - The FEIS text (Section 3.12 Air Quality) has been revised to indicate that there are no applicable hazardous air pollutant, visibility impairment, or atmospheric deposition (acid rain) standards and that the existing 'reasonably attributable' and new 'regional haze' visibility impairment regulations apply only within federal Mandatory PSD Class I areas. In addition, both the FEIS text and the Revised Air Quality Impact Assessment Technical Support Document (BLM 1999d) have been revised to clarify the status of the Savage Run Wilderness Area as recommended. Please also see FEIS Section 72.79.2, Comment Response 12.

Comment Response 33 - Please see Comment Response 12, above.

<u>Comment Response 34</u> - The impact analysis assumed that 10% of the emitted NO₄ is NO₂ and 90% is NO. It was also assumed that the emitted NO₄ in the emissions inventory is proportionately weighed as NO₂.

For example, if the NO_x emission rate is 10 g/s, the NO and NO₂ emission rates will be:

 $NO_2 = (0.10)(10 \text{ g/s}) = 1 \text{ g/s}$

NO = (0.90)(10 g/s)(30/46) = 5.87 g/s

where 30 is the molecular weight of NO and 46 is the molecular weight of NO₂. It should be noted that CALPUFF accounts for the molecular weight differences in converting NO to NO₂, so the 5.87 g of NO will produce (46/30)(5.87 g) = 9.0 g of NO₂. Thus matching the original emission rate weight as NO₅, and providing a NO₂/NO₄ ratio of 14.56% (1 g/s of NO₂ to 6.87 g/s of NO₂.

Comment Response 35 - The Air Quality Impact Assessment Technical Support Document (Volume II - Appendix B: Source Aggregation Method) described how the sigma-y values were calculated for the aggregated sources. The discussion on page B-2 presents the formulation for computing the position (X) and the variance (VAR) of a source that is produced by combining two previously aggregated groups. This is the process that is actually repeated many times in the algorithm because the aggregation process is built upon bringing pairs of source-groups together until the distance between the resulting sources exceeds an imposed criterion (note that this distance criterion is related to the distance of a source from the nearest receptor). A particular source (aggregated or not) is paired only once per pass through the list of sources, and new passes are initiated only if at least one aggregation event was performed in the last pass completed. At the start of each pass, each aggregated source is characterized by a location and a variance (sigma - y squared), but the original location of each source in an aggregation is not retained. After all passes are completed, each of the remaining sources is placed at its final position and given an initial sigma-y that is equal to the square root of the final variance. In this analysis, all sources that are aggregated have identical stack parameters (excluding location), so issues related to the selection of effective temperature, diameter, height, etc., do not arise.

Regarding limiting sigma-y values to 4 km, the intent of the aggregation process is to replace many point sources with fewer point sources in such a way that distant impacts (concentrations) remain adequately characterized. Once plannes from many point sources overlap significantly, perturbations in source locations have a reduced influence on the total concentration field, and fewer sources with proportionally larger emission rates and greater separation distances can be used (other source characteristics being equivalent). The initial sigma-y given these aggregated sources should reflect the scale over which the sources have been combined, rather than the size of the modeling grid cell, so a cap of 4 km (grid cell) would not be appropriate. There is no such cap on the growth of sigma-y within CALPUFF.

By using an aggregated point source rather than grid-cell sized area sources, the treatment of the plume rise is explicitly retained. If an area source were used, the final rise and initial sigma-z could not be replicated. Also, the area source algorithm is designed to address the near-field concentration distribution due to a distributed source. In the far-field, such details are moot, and an equivalent point source may be used.

The original source plume characteristics can be verified with the aggregated sources control file. The point sources combined in this application have identical stack parameters. These are passed on to the CALPUFF control file with one modification: the emission rate is the sum of the emission rate from each of the sources included in an aggregated source. In addition, an initial sigma-y is used to characterize the lateral size of the emitted puffs. Therefore, the control file documents the stack parameters that are used, and these can be verified against the original source parameters.

No priority sequence is used to determine acceptable pairing of any given sources. As stated above, the sources that are candidates for aggregation have identical stack parameters in this application, so the issue of similar stack parameters (Re, and 1) does not arise. Therefore, the process of pairing sources into aggregates involves two primary procedures. In the first, sources are placed into bins based on the distance to the nearest receptor. Sources are not combined across bins. In the second, sources are paired in successive passes based on the distance between them typically increases so that the distance criterion is eventually reached for an aggregate source and it becomes one of the final source aggregates.

The parameters R_0 and f define the bin boundaries, where the metric is distance to the nearest receptor. The thickness of a bin increases with the distance to the nearest receptor. This bin thickness is used to set the distance criterion for pairing. As

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described in the Air Quality Impact Assessment Technical Support Document (Volume II - Appendix B: Source Ageregation Method, page B-2), sources within a bin may be paired only if the distance between them does not exceed 0.71 times the bin thickness.

The example result displayed in Figure 1 of the Air Quality Impact Assessment Technical Support Document (Volume II -Appendix B: Source Aggregation Method, page B-3) illustrates how the binning influences the aggregation. The final aggregated sources appear organized in lines that are parallel to the line of receptors. Those lines nearer the receptors have a shorter distance between the aggregated sources than do those that are far from the receptors. This is due to the smaller bin thickness used for sources that lie nearer the receptors.

7.2.92.2 Letter 92 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

<u>Comment Response 1</u> - Please see FEIS Section 7.2.58.2, Comment Response 1.

<u>Comment Response 2</u> - The BLM will certainly take into consideration existing conditions at locations that are closed to development due to seasonal limitations. Such exceptions are provided for in the DEIS.

<u>Comment Response 3</u> - The ROD for this project will identify all required mitigation measures. Additional potential BLMrequired mitigation may be necessary to limit impacts due to cil and gas development. The BLM wants Operators and the public to know what additional mitigations may be required.

2.92.1 Let	er 92 - Timothy R. Morris, Santa Fe			 Cynthia 		U.\$
Sny	der Corporation	E	nvironmenta	Protection	n Agency	
Santa Fe Snyder Co			TATES ENVIRON			
June 10, 1999		UNITED S		RENTAL PROTE	CTION AGENCY	
				UEET - SUITE 800		
Mr. Clare Miller	Via Pacaimile (307) 325-6234		DENVER.	CO 80292-2468		
Burress of Land Management 1300 N. Third St.		R MORE	http://www.	Scholgertrog.aqe		
Raviline, Wypering #2301						
Re. Draft Bevirouwents	Impact Statement Comments		JL 2 1	-	RECEIV	/ED
Conneeral Divide/	Family II EIS Preject	Ref. SEPR-EP	JUL 2)	2003	TILOEN	100
Carbon and Sweene	ser Cousties, Wyomang	Ref: SEPR-EP				
Centiement:		VIA FACSIMILE AND M			JUL 26	1999
		TA PACSIMILE AND I	10416			
Santa Fe Sayder Corporation	("SFS") offers the following comments for the Bureau of Land reparting the Contennal Divide/Warnauter II Draft Environmental Impost	Clare Miller, EIS Team L	ender		BUREAU OF LAND M	ANAGE
Setement ("OELS"):	all and the restances of the second of the second second second	Rawlins Field Office	A-DAL-I		L HAWLINS FIELD	OFFIC
		Bureau of Land Manage	ment			
2. Proposed Action ve	est Alternatives A and B. The DEIS does not demonstrate algorithment imposts be Proposed Action with the "Applicant-Corrected Measure" contained in	P. O. Box 2407	110-11			
Charter 2. The Proc	and Agine should be the elemanative selected in the Record of Decision.	Rawlins, WY 82301-240	a			
	15 air quality impact essessment for the proposed action predicted impacts	Rawinio, WI GASOI-ATO				
2 Air Quality. The Di	IS an quality impact issessment unit conservative assumptions including:		Re:	EPA Comment	s on DEIS for	
				Continental Di	vide/Wamsutter	π
1) AN 3000 -	its openning simultaneously;			Natural Gas Pr		
2) Compress	entimee man of 2 genns per homepower-hour (versus 1 gran per hour emperativ being cermitari); and			Matures Ges Fi	ojecs	
1 3) All adver of	soor preservy energy percentage, and					
enlasion m	an aimultaneously throughout the life of the project.	Dear Mr. Miller:				
No farther mitigatio	abould be required with regard to air quality other than Applicant-	In accordance with	h our responsibilit	ties under the N	ational	
Committed measure	containend en page 4-13.	Environmental Policy Ac	+ (NEPA) and Sect	ion 309 of the C	lean Air Act (CAA	NI.
1 1. Wildlife, Existing v	iddife stipulations precistily shat down drilling activities for one-half of	Region VIII of the U.S. I	Environmental Pre	tection Agency	EPA) has reviewe	d
		the Draft Environmenta	I Imnact Statemen	t (DRIS) for the	Continental Divid	ie.
		Wamsutter II Natural G	a Deniert Based	on that review	EDA has menared	4
and will appreciate a	to BLM's continued monitoring efforts to grant exceptions if a next or less is	comments that should b	as rioject. Deaco	- Wast Bankery,	and a mental for a set	•
E so longer active or i	a winter appears not to be particularly barsh.		e addressed in th	e rinai shvironi	menon mipact	
1 4. Amilant-Committe	Measures. The DEIS does not find any significant adverse impacts to any	Statement (FEIS).				
resources from the l						
3 Committed Measure	" go beyond legal requirements and demonstrate good faith environmental out Chever 4 of the DE25 the "Applicant-Committed Measures" are	This DEIS analyze	is the potential en	vironmental imp	acts of expanded	£
sensitivity. Through	out Chapter 4 of the DE25 the "Applicant-Committee Measures" are affigient to protect resources and the "Additional Potential BLM-Required	natural gas exploration				
Mitiration" are not	CONTRACT OF DESIGNATION AND AN PROJECTION CONTRACTOR	II Project Area (CD/WIIF	A) located in Swee	etwater and Car	bon Counties, Wh	ί,
		approximately 25 miles	west of Rawlins.	The proposed pr	oject has been	
SFS looks forward to a Reen	d of Decision in the near future that will allow resumed activity in a highly	defined by Amoco Produ	ction (Amocol, Un	tion Pacific Reso	urces Company	
productive area for the first t	ne on federal leads since the fail of 1997. Thank you for the opportunity to add have any questions, please advize.	(UPRC), Yates Petroleum	Corporation (Yat	es). Snyder Oil (Corporation (Snyc	ier).
comme sels Optis. If you see	RECEIVED	and other companies. T				
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existing oil and gas operations in the project area include 720 oil and gas wells, 1,900 miles of roads, 280 miles of pipeline right-of-way, and 500 acres of surface disturbance due to ancillary facilities, including a gas processing plant, pumping stations, evaporation ponds, and staging areas

The DEIS evaluates four alternative actions: 1) Companies' Proposed Action; 2) Alternative A, 14 acre maximum surface disturbance in sensitive resource areas; 3] Alternative B, 30 acre maximum surface disturbance in sensitive resource areas; and 4) No Action. Sensitive resource areas (SRAs) include areas with stabilized sand dunes, raptor nesting areas, crucial habi cultural resource sites, residential areas, and Visual Resource Areas. The No Action alternative is defined on page 2-8 and would deny the current development proposal. But, selection of the No Action alternative would allo the existing levels of development activity to continue.

Potential Impacts and Mitigstion. The Continental Divide DEIS provides a comprehensive picture of the potential impacts associated with natural gas development in this area of Wyoming. Table 2.6 on page 2.33 to 2.54 provides a summary of impacts categorized by cariforniential resource and development activities. This Table 2.6 and Chapter 4. Environmental Consequences, assume the effective implementation of project-wide environmental protection and mitigation measures presented in Section 2.6.13 on page 2-30. The method to assure compliance with mitigation measures relies on an Operator representative to consult with BLM on a case-by-case basis as necessary. There are a number of potentially significant impacts referenced in Table 2.5 and Chapter 4 after assuming effective implementation of environmental protection and mitigation measures, including reactivitation of stabilized samd dunce, loss of proper functioning of surface water resources, increased noise levels, loss of raptor productivity, displacement and stress on undrafase name evical, noso report providency, anguarchenic sub excess o resources. EN- commende the EU de devolge as Augustic Environmental Management Pisa (AEMP) to be incorporated into the Final EUS (FEIS) as a method of verifying implementation, measuring the auccess rate of proposed measures, and making appropriate modifications to miligation measures bai on actual performance. This AEMP concept is discussed further in our

ures based attached d atailed a

Air Quality Concerns. We are pleased that a comprehensive air quality sis of gas development projects, including Continental Divide/Warnsutter I and South Bags was prepared to disclose the potential direct, indirect, and cumulative impacts of these projects and other emission sources in the cumulative impact assessment area. The cooperative effort of preparing an analytical protocol was very useful in ensuring multi-interest participation. Because of the significance of this Continental Divide modeling work in relation to the Southwest Wyoming Technical Air Forum air modeling protocol, the

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Continental Divide Air Quality Technical Report and the CALMET/CALPUFF model application must be technically sound. We have some concerns about the assumptions and methods used in the modeling as noted in the the semilimiteria and metroso used in the modeling as note: in the modeling of the second of the second second second second second second metroscience. The second second second second second second second metroscience is a second second second second second second second Assessment Technical Stopport Document and the modeling files for the Far-Feld Analysis, it is apparent that so one wishibly dequation in Class J Areas of the modeling domain will occur due to emissions from the gas well devicement as the continent al brief yearsafter if an advantil and second amount of degradation to be expected is unknown at this time due to the need for clarification of assumptions and methods. However, on page 37, Table 5-4 of the Air Quality Technical Support Document (Far-Field Analysis) indicates

2 of the AIT QUARY Technical Support Document (Far-Field Analysis) indicates that potential viability deguadation at greater than 0.5 deciview level ranges from 8 days at the Bridger-Tecton Wilderness to 1 day at the Firspatrick Wilderness. This range of potential impairment of visibility in Class 1 areas is not fully discussed in the DEIS. Instead the DEIS uses Table 5-6 from the Ai Not fully discussed in the Diss. Indicate the Date case of the the in Quality Technical Report as the basis for the air quality discussion in the DEIS This Table 5-6 appears in the DEIS as Table 4.6 and is the proponents's preferred method of displaying the potential visibility degradation. This Table 4.6 presents the minimum number of days of potential degradation.

Because of the potential for visibility degradation in Class 1 Areas, the

- Because of the potential nor vacuuity degramanom m cases 1 Artens, me cost and effectiveness of mitigation measures needs to be addressed in the Fina Elis. Section 4.1,1.5 in the DES does address types of mitigation; but there is no information about cost or effectiveness of this mitigation. The public and the decision-makers have insufficient information to support a decision can mitigation measures to offert potential degradation of valsibility due 3 to gas devoluted and and the part of Wyoming. As noted above, mitigation measures selected to address air quality concerns should also be monitored, evaluated, and modified under a formal Adaptive Environmental Managemen 4
- Plan (AEMP)

Rating. Based on EPA's national rating system, the Continental Divide DEIS will be listed in the Faderal Register as category 26-2. Environmental Concerns, havilicitar information. This rating means that EPA has identified environmental concerns with the potential impacts of the proposed project and the mitigation measures.

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Thank you for the opportunity to review and comment on the Continental Divide/Wamsutter II Natural Gas Project DEIS; we appreciate the two-week extension of the comment deadline. Attached are detailed comments for your extension of the comment usamme. Attached are detailed comments by your consideration in preparation of the FEIS. If you have any questions about our comments on this DEIS, please call me at (303) 312-5228, or Mike Strieby, the Project Review Coordinator, at (303) 312-6002.

Cynthia Cody, Chief

NEPA Unit Ecosystem Protection Program

Enclosure

Larry Svoboda, EPA John Notar, NPS Tamara Blett, USDA-FS Elaine Suriano, EPA. OFA

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EPA REGION VIII COMMENTS

ON THE DRAFT ENVIRONMENTAL IMPACT STATEMENT FOR THE CONTINENTAL DIVIDE/WAMSUTTER IL FROJECT ORIGINAL SENT BY FAX JULY 15, 1999 REVISED AFTER DISCUSSION WITH BLM ON JULY 20, 1999

ADAPTIVE MANAGEMENT

Rather than depend on a communication process between BLM and Operators to ensure adequate mitigation measures are implemented for the Continental Divide/Wamsutter II project, EPA recommends that BLM develop a formal Adaptive Environmental Management Plan (AEMP) to be included in the FBIS as the method to verify the efficacy of proposed mitigation measures.

An AEMP is a process to increase the speed at which manage from their decisions about resources and how development activities affect them. The process generally consists of several basic steps including: a) defining the natural resource protection objectives; b) identifying the 5 detining the natural resource protection objectives, b) identifying the response to generate herblack (a) tuiling part opperations (c) individual multiple stakeholders, i) documenting information and exitons, and is adjusting management protections based on learning experimence. For introle information chapters kinaagement there NEPA, is <u>Revisionmental Policy and NEPA</u>, R. Catark and L. Catare, ed., 81 Lucker Pens, 1997, pages 165-180.

We understand that an AEMP can have differing levels of effort and costs. Generally, there are three possible options including reactive, passive, or active. The following is a suggested budget and organization outline for three different levels of AEMPs:

Al "Reactive Management" Plan, the least cost option:

Organizational Arrangements. Establish one intra-agency technical work group consisting of BLM and cooperating agencies' scientists and natural

Process. Provide a small budget and resources needed to monitor selected key cosystem indicators managed by the intra-sency work group.

Independent Science Review. Proposed plans and actions could be made available to various stakeholders. These stakeholders could acquire

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independent scientific review and provide this information to the intraagency work group.

Public Access and Review. Provide key documents in draft form to interested stakeholders.

B) "Passive Management" Plan, next mid-level cost option:

Organizational Arrangements. Establish two technical work groups: 1) An intra-agency technical work group of BLM and cooperating agencies' scientists and natural resource economists; and 2) An extra-agency work group of independent scientists and natural resource economists.

Process. Make various management documents including monitoring of environmental conditions and proposed resource management plans available for scientific review when developed in a draft stage. Direct the extra-agency scientists work group to independently propose monitoring of unspoiled conditions and means to determine if such conditions remain unspoiled.

Independent Science Review. Seek pro-bono peer review to be managed by the Natural Resources Committee of the National Academy of Sciences. Provide budget for work of the extra-agency science work group.

Public Access and Review. Provide key documents in draft form to interested stakeholders and hold infrequent public meetings at critical decision points.

C) "Active Management" Plan or the high cost option:

<u>Organizational Arrangementis</u>. Satabilsh three technical work groups: 1] Ac intra-agency technical work group of BLM and cooperating sensities' scientists and astural resource consomists; 2] An extra-agency work group of independent scientists and natural resource consomists; and 3] A science center of contracted specialists in the environmental sciences and the natural resource consomists.

<u>Process</u>, Make various management documents including monitoring of convinomental conditions and proposed resource management plans available for scientific review when developed in a draft stage. Direct the start, agency scientists' work group to independently propose monitoring of unspolled conditions and means to determine if such conditions remain unspolled. Assure the science center staff conducts academically

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peer-reviewed reports on the effectiveness of mitigation measures to achieve the non-degradation and restoration objectives.

Independent Science Review. Obtain scientific peer review managed by the Natural Resources Committee of the National Academy of Sciences. Budget and implement the work of both the extra-agency science work group and the permanently established science center.

Public Access and Review. Provide key documents in draft form to interested stakeholders and hold frequent, perhaps quarterly, public meetings to maintain an ongoing interaction with the public in all aspects of managing the Continental Divide/Wamsutter II Gas Development Project.

We recommend that the Final EIS outline the various adaptive management optical including strength and benefits of tokeo options. The Preferred Alternative should contain the essence of an effective and efficient RAMP including the involvement of nutlights stateholders, available budgets, meeting frequencies, and the use of independent scientific review of inlighted Detailson. A section of an ASMP biolaid be approached in the Record of Detailson.

AIR OUALITY

BPA has completed an analysis of the str quality modeling seprorate has results discussed in the Technical Report and DEX. Regardless of methods selected (METKOD 2 or METKOD 4) to indicate the potential for visibility degradation in Clean I Areas of the modeling domain. Liner is a high potential off-set this potential degradation. The following comments are specific to the Technical Support Document and the CALMET/CALFUPF Model.

Technical Support Document

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7 8 Page 6, Winter Scaling Factor. The Winter Scaling Factor and the Nonwinter Scaling Factors for the Jonah wells are significantly lower than for other fields. Please explain this difference and how the factor will affect well emissiona.

 Page 35, Third Paragraph. Please explain the reason for excluding the transmissometer data on exceedance day (Julian Day 146) at Bridger, Fitzpatrick, and Popo Agie. What type of "weather" was occurring ? How Letter 93 - Cynthia Cody, U.S. Environmental Protection Agency, Page 8

- 8 does excluding a data point on an exceedance day contribute to adequate characterization of conditions and impacts?
- 9 3. Page 39, "Number of invalid Days". As shown in this Table, the number of invalid days for the transmissometer data was approximately 25% of the year. This information about be included in the FEIS as a factor that could lead to an underestimation of potential impacts.

CALMET/CALPUPP MODELING CONCERNS

- A. MAS Predicets and Observed Precipitation Date. The CD/WIDES documentation states that both observed and MAS predicted precipitation (attas were used in CALMET to generate the precipitation failed. The MAS predication platons and controls falley of our tataction failed. The MAS predication platons and controls falley of our tataction CALMET can potentially result in advoice counting of the precipitation. This would overstate the verse saventing of ophysical states and observations of which it is an earlier trengtor state. If MAS evaluated against the observed values to lautit their use to be revised against the observed values to lautit their use.
- Kinematic Effects Treatment. The CD/WII DEIS CALMET modeling did not specify the option to treat kinematic affects such as blocking, deflection and channeling of wind fow by complex terrain. Hence provide justification for the failure to consider these effects in the CALMET model.
- 10. Incomplete Meteorological Database. The CD/WII CALMET modeling used feas than half data sufficient loss that the CD and the study data. Buch data are entitled in the CD WIN database the study data. Buch data are entitled in the CD WIN database Automatic Weather Station (RWS) and the WINNIG Department of Transportation states were excluded. The justification was that these data data was used in the Project. The justification was that these data data was used in the Project. The Statistication was that these data data was used in the Project. The standard Network Weather Station (RWS) data used in the CD/WID IEES CALKET modeling studies in the region. The standard Network Weather Station (RWS) data used in the CD/WID IEES CALKET and was real and provide specific, defensible rationals for any data exclusion.
- 13]^{7.} Puff Splitting. One of the greatest technical limitations of CALPUFF for far-field modeling in complex terrain is using a constant wind to advect

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- the yuff despite the bariantia pind call extend at the yuff and wind warbibly in vertical server. Cut:VFV5 has a put splitting algorithm to split to allow two portions to be advected in different directions. The CD/WII DEIS does not use the put splitting option. Hence provide adequate justification for not using this option.
- PM10 Dry Deposition. A geometric mean diameter of 10 micross with a 0 micros matanéet deviance was specified as input to CALPYP for alonating PM10 dry deposition mikes. PM10 species represents all particular antere components hanto 9 u 10 micross. The treatment of greatly oversitate the average size of the PM10 particles. The particle after distribution can be estimated using EPM2 "Compliation of Air Politural Emission Pactorn-AP-447. Chapter 13. Please provide 10 distribution can be estimated using EPM2 "Compliation of Air Politural Emission Pactorn-AP-447. Chapter 13. Please provide 10 distribution can be estimated using EPM2 to compliate on of Air Politural Emission Pactorn-AP-447. Chapter 13. Please provide 10 distribution can be estimated using EPM2 to compliance on of Air Politural Emission Pactorn-AP-447. Chapter 13. Please provide 10 distribution can be estimated using EPM2 to compliance on the Air April Pacific All Pacific Al
- Background Ammonia. The CD/WID DBS CALFUFF modeling used a background ammonia concentration of 10 ppk High terrain samonia measurements from the Mount Zitke Vlability Study suggests that a the Interaction of the Mount Zitke Vlability Study suggests that a the Interaction of Workgroup on AF Cokality Mouling (WAM) (Pass 2 Report suggests a background ammonia concentration of 10 ppb for att kanda. Passe provide a reliabale for the use of 10 ppb in modeling
- Relative Humidity. It appears that day-specific 200m vertically averaged relative humidity predictions from the MAS model were used in both the METHOD 2 and METHOD 4 visibility aclouding the statistical relative humidity (RR) is used in the visibility assessment, it must be evaluated against the observed values to determine accuracy and appropriateness.
- I.I. MITHOD 2. This Method 2 or solicitating visuality inspects is response on a recommended IRVAO, method. Reverse the CD/WII DEBS METHOD 2 approach used MMS prediced 300m vertically surveyed relative humidity values methor than IMPROV for the survivor essential means encommenced by IRVAO. Surface relative humidity will be highly will understate the CL/WIPP encided on estimation due to ne wources.

7.2.93.2 Letter 93 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

<u>Comment Response</u> 1 - The BLM believes the procedures identified for monitoring, evaluation, review, and potential modification (e.g., changed mitigative actions) identified in the DEIS Reclamation Plan, Transportation Plan, and Wildlife Frotection Plan (Appendices A, B, and D, respectively) provide for adequate adaptive environmental management for most, if not all, resources with the potential for significant impacts. The BLM does not believe an adaptive environmental management plan is necessary for air quality since no project-specific significant air quality impacts are anticipated, and in any event the BLM cannot implement specific air quality mitigations since we have no authority to do so. The following provides a brief summary of how the transportation, reclamation, and wildlife protection plans provide for adaptive environmental management.

The Reclamation Plan (DEIS Appendix A) involves components designed to protect or otherwise minimize impacts to many area resources including surface and ground waters, vegetation communities, wildlife, livestock grazing, recreation, and visual resources. The process to assure appropriate reclamation is provided in DEIS Figure A-1.1. While only the BLM and Operators are involved in evaluating reclamation success, the BLM believes the success criteria presented in DEIS Section A-6.3 are adequate and that reclamation success determinations do not require alternate agency and/or public involvement.

The transportation planning process as identified in DEIS Appendix B and the associated technical support document (BLM 1999a) involves components designed to protect virtually all area resources. A transportation planning committee (TPC) that includes BLM, Operators, state and county transportation departments, WGFD, landowners, grazing permittes, Road development and closure planning in the CD/WIIPA will involve multiple entity involvement on an annual basis. Where potential problems can be identified prior to road development, road development plans may be changed. Furthermore, where problems are identified after roads have been constructed, the TPC will work to alleviate these situations. Public meetings have been identified as a method to assist in resolution of issues (see DEIS Table 8-4.1).

The Wildlife Protection Plan (DEIS Appendix D) is designed to determine the extent of adverse effects occurring to sensitive wildlife resources, and in the event adverse effects are found, the plan calls for increased protection measures. Currently proposed techniques and associated responsibilities are shown in DEIS Tables D-2.1, D-2.2, and D-2.3, and the BLM believes these measures are adequate at this time. An annual review of wildlife monitoring techniques and data is provided (see DEIS Section D-2.1) and opportunities for alternate agency (e.g., WGFD, USFWM) as well as public review are provided. The BLM believes that an adaptive environmental management program for surface water resources in the CD/WIIPA may be appropriate since no formal, project-specific surface water quality or quantity monitoring program currently exists. However, the BLM believes existing surface water protection measures coupled with transportation and reclamation planning as presented in this EIS would adequately protect these resources. Nonetheless, modifications have been made in this FEIS to allow for the potential to include an adaptive environmental management program for surface water resources. If requested by the EPA, the BLM would meet to further discuss the adaptive environmental resource management for this and other future projects.

Comment Response 2 - As clearly described in the DEIS text (Section 4.1.1.6 Cumulative Impacts), "A conservative visibility screening level analysis indicated that proposed project operations might result in a perceptible (1.0 deciview) visibility reduction on very clear days at several of the PSD Class I and II sensitive receptors, therefore a more refined potential visibility impact analysis was performed" and "As shown in Table 4.6, the refined visibility impact analysis predicted that a 'just noticeable change' greater than 1.0 deciview would occur on a single day at only the PSD Class I Rawah Wilderness Area. This predicted impact would not occur from the project sources or the 'No Action' sources alone, but from all sources combined (total cumulative sources)." The EIS further describes the USFS (Regions 2 and 4) visibility significance threshold of a 0.5-deciview Limit of Acceptable Change, and that based "on this more restrictive 36 of a 'just noticeable change' level, cumulative operations would exceed the USFS 'Limit of Acceptable Change' on a single day at both the PSD Class I Rawah Wilderness Area (1.69 deciview) and the [federal] PSD Class II Savage Run Wilderness Area (0.69 deciview). These predicted impacts would not occur from the project sources or the 'No Action' sources alone, but from all sources combined (total cumulative sources)."

The BLM conducted the very conservative, but much simpler, visibility screening analysis (method 2) to determine if potential visibility impacts within several sensitive receptors was possible. If no potential impacts were predicted using the very conservative method, then no further analysis was necessary. However, because the screening analysis did not preclude a potential for significant adverse visibility impacts and based on the BLM's experience in predicting potential visibility impacts in this region for previous NEPA assessments, the more refined potential visibility impact analysis (method 4) was performed.

The BLM provided a detailed description of both analyses: methods and results in a separate Air Quality Technical Support Document (BLM 1999h), which was available to the general public upon request during the DEIS comment period. Please also see FEIS Section 7.2792, Comment Response 26.

All air quality impact assessment materials presented in the DEIS represent the BLM's "preferred method of displaying the potential visibility degradation" and not "the proponents'."

In addition, DEIS Table 4.6 does not present "the minimum number of days of potential [visibility] degradation." As clearly described in the DEIS text (Section 4.1.1.6 Cumulative Impacts), "In reviewing these predicted cumulative impacts, it is important to understand the 'reasonable, but conservative' assumptions made regarding potential resource development. In developing this analysis, there is uncertainty regarding ultimate development (i.e., number of wells, equipment to be used, specific locations). The analysis was also based on a 'reasonably foreseeable' development scenario, including several conservative assumptions." After detailing the conservative assumptions, the DEIS clearly concludes "Based on these numerous 'reasonable, but conservative' analysis assumptions, which may actually compound one another, the projected impacts represent an upper estimate of potential air quality impacts which are unlikely to actually be reached."

<u>Comment Response 3</u> - The Revised Air Quality Impact Assessment Technical Support Document text (Volume I -3.0 NO₄ Mitigation) has been revised to include cost effectiveness information.

Comment Response 4 - As required by NEPA (40 C.F.R. 1502.16(h), the DEIS text clearly described "means to mitigate adverse environmental impacts," including applicant-committed mitigation, additional potential BLM-required mitigation, and other "mitigative opportunities" outside the jurisdiction of BLM's authority (Section 4.1.1.5 Mitigation and Monitoring). Although NEPA does require the lead agency (40 C.F.R. 1505.3(c)) "upon request, [to] inform cooperating or commenting agencies on progress on carrying out mitigation measures which they have proposed and which were adopted by the agency making the decision," actual mitigation selection and implementation, and the use of "a formal Adaptive Environmental Management Plan," are not required by NEPA. Mitigation measures (including monitoring) may be included by the decisionmaker in the ROD to reduce potential significant adverse impacts.

Comment Response 5 - Please refer to Comment Response 1, above.

<u>Comment Response 6</u> - As clearly stated in the DEIS (Executive Summary, Page vi), "Since BLM approved activities must comply with all applicable local, state, tribal, and federal air quality laws, statues, regulations, standards, and implementation plans, significant adverse impacts to air quality are not anticipated to occur from implementation of any of the alternative actions." The technical basis for this conclusion was presented in the DEIS (Section 4.1.1. Air Quality) and the Air Quality Impact Assessment Technical Support Document (BLM 1999b).

The DEIS did not predict "a high potential for degradation" of visibility in sensitive areas, nor do "effective mitigation measures need to be defined to off-set this potential degradation." As clearly described in the DEIS text (Section 4.1.1.6 Cumulative Impacts), "A conservative visibility screening level analysis indicated that proposed project operations might result in a perceptible (1.0 deciview) visibility reduction on very clear days at several of the PSD Class I and II sensitive receptors, therefore a more refined potential visibility impact analysis was performed" and "As shown in DEIS Table 4.6, the refined visibility impact analysis predicted that a 'just noticeable change' greater than 10 deciview would occur on a single day at only the PSD Class 1 Rawah Wilderness Area." After detailing the conservative assumptions used in the refined visibility impact analysis, the DEIS clearly concluded 'Based on these numerous 'reasonable, but conservative' analysis assumptions, which may actually compound one another, the projected impacts represent an upper estimate of potential air quality impacts which are unlikely to actually be reached." Please also see Comment Response 1. above, and PEIS Section 7.27.92, Comment Response 1.

<u>Comment Response</u> 7 - Scaling factors were initially developed to account for well heater operation schedules provided by the field Operators. In the case of Jonah II, Snyder Oil Company provided specific well heater operating cycle information. The dehydrator heaters were estimated to operate year-round, for at most 15 minutes per hour. The separator heaters were estimated to operate from October through April, for at most 15 minutes per hour. Scaling factors were used in the modeling to adjust full load emission rates to account for the heater operating schedules. Lacking similar specific operating cycle information, the dehydrator heaters in other well fields were assumed to operate year-round, for 30 minutes per hour, and separator heaters operated full time during the winter months (October – March).

In addition, the scaling factors developed for well heater schedules were used to adjust modeled well field emissions, based on the VDEO-AOD recently permitted source inventory. Therefore, each set of scaling factors varies between each well field to account for sources that were included in the WDEO-AOD emissions inventory.

<u>Comment Response</u> 3 - The Bridger transmissometer database includes the category "number of readings not in average due to weather." All 24 hours in Julian day 146 were excluded due to weather. There is no code indicating exactly what the weather was during that day although the relative humidity was at or above 93% for 17 hours. Since the measured visual extinction on day 146 is not known, then the refined visibility analysis (method 4) cannot be applied.

<u>Comment Response</u> 9 - As clearly reported in of the Air Quality Impact Assessment Technical Support Document text (Volume 11 - 5.2 Visibility Impacts), 'Any one-day and two-day gaps throughout the year are filled by interpolation of measured extinction values for the previous valid day and the following valid day. This brings the number of valid days of analysis for the Bridger Wilderness Area to 307 (267+16+14), and for Rocky Mountain National Park to 319 (276+19+24), providing nearly 84% and 87% data recovery, respectively."

In addition, Appendix E (a) - Daily Summary of Bridger Transmissometer Data indicated that approximately 65% (2461 hours of the total 3,765) of the invalid hours were weather related for which no visibility impact analysis can be performed. Similarly, Appendix E (b) - Daily Summary of Rocky Mountain National Park Transmissometer Data indicated that approximately 95% (3,479 hours of the total 3,753) of the "invalid" hours were veather-related.

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This compares to only a 47% valid 1995 nephelometer data recovery for the "Mt. Zirkel Wilderness Area Reasonable Attribution Study of Visibility Impairment" (Watson et al. 1996), where the instrument was not operated 23% of the year, 26% of the possible data were effected by weather (even including measurements up to 55% relative humidity), and nearly 4% other invalid data. The theoretical maximum data recovery for reconstructed extinction from IMPROVE fine particulate samplers is only 29% (two 24-hour samples per week).

The DEIS clearly used and reported the most complete and persestnative background optical data available to predict potential visibility impacts from the Proposed Action and alternatives. In addition, it is just as possible the missing T3 to 16% transmissometer data would not lead to an under-estimation of potential impacts.

<u>Comment Response</u> 10 - The concern that using MMS and observed data could lead to "double counting" of the precipitation (and therefore overestimation of the wet deposition) is not justified. The precipitation from MMS was not added to the observed values. Rather, the data sets were merged in a way to give weight to the observed data in areas mear the observational stations and to give weight to the MMS data were adjusted to reflect the spatial patterns of precipitation in the PRISM (Parameter-leaviance Regressions on Independent Slopes Model) data set, developed by Dr. Christopher Daly of Oregon State University (USDA-NRCS 1998).

<u>Comment Response 11</u> - The CALMET simulations did include terrain effects such as slope flows (ISLOPE=1) and terrain channeling (Froude number) effects ([FRADJ=1). The kinematics effects option was not used (IKINE=0) in accordance with the recommended (default) model settings because this option may produce unrealistically high wind speeds in Layer 2 when relatively small grid sizes are used. Any fine-scale simulations with IKINE=1 could potentially contain inappropriate Layer 2 winds.

Comment Response 12 - The context in which the data were used must be considered. In this project, unlike the Mount Zirkel Visibility Study, hourly MM5 predictions on a 20-km grid were available to initialize the CALMET wind fields. As indicated in the Air Quality Impact Assessment Technical Support Document text (Volume II - 3.3 Meteorological Data Base), the QA/QC protocols followed at the secondary meteorological sites were less stringent than those required under EPA PSD monitoring guidelines (ARS 1997). There is also a question as to the siting of some of the monitors and the representativeness of the data relative to larger scale flow patterns. Although the data might be quite suitable for the purposes for which they were collected, they do not meet the requirements for modeling purposes. Rather than potentially degrade the wind fields by introducing potentially nonrepresentative data into a relatively data-rich environment (due to the MM5 data), the secondary sites were not used.

Comment Response 13 - The general IWAQM recommended procedure is to exclude puff splitting. The puff splitting option is available to address special cases where there is evidence of important shear effects, but for the Proposed Action and alternatives, there is no reason to believe shear is important during the critical periods.

<u>Comment Response 14</u> - The actual particle size distribution of the potential particulate matter emissions in unknown. In reviewing data for mining operations, the particle sizes varied significantly based on the type of operation and the meteorological conditions. The use of a 10 micron diameter is one limit of the possible range. It is possible to model a lower range as well and to put bounds on the uncertainty of the results due to this unknown factor. However, primary particulate matter was not a significant factor in the air quality impact analysis (including critical visibility events), so this detailed further analysis is not necessary.

<u>Comment Response 15</u> - Because local ammonia monitoring data are not available, the CALPUFF default value of 10 parts per billion (ppb) ammonia was used in the analysis. This value is designed as a conservative assumption, favoring the formation of secondary particulate matter and resulting visibility impacts. Assuming only 1 ppb background ammonia could limit gas to particle conversion, and understate potential visibility impacts.

<u>Comment Response</u> 16 - The hourly relative humidity values used in the visibility calculations were derived from the nearest MM5 grid point to the receptor. A vertical average from the surface to 200 m above the surface was used in the calculations. Although no detailed comparison of the MMS relative humidity predictions to the measured values was done, the qualitative patterns produced by MMS are reasonable. Given the known deficiencies of the observed data (i.e., limited or no data collected in the higher terrain areas, near-surface values only, potentially missing data, etc.), the comprehensive MM5 data were determined to be appropriate. Please also see Comment Response 17, below.

Comment Response 17 - As clearly stated in the Air Quality Impact Assessment Technical Support Document text (Volume II - 4.3 Meteorological Modeling Options), "The relative humidity used to determine Fm, has been computed as a 200-meter vertical average of the humidity predicted at the nearest MM5 grid point to the receptor. This allows for terrain effects on relative humidity to be better evaluated than if surface-based relative humidity measurements at the NWS stations were used. The NWS stations tend to be located in flat areas at lower elevations than the sensitive areas of interest. The 200 m vertical average is intended as a compromise between the desire for a nearsurface relative humidity value (reflecting the presence of the observer at the surface) and that for a vertical average to represent the distribution of the pollutants in the vertical sight path." Relative humidity measurements observed at the transmissometer location have the same limitation. This text also clearly stated "In CALPOST method 2, the hygroscopic component of the background is subject to the same relative humidity adjustment as the modeled primary and secondary particulate matter concentrations." Please also see Comment Response 16, above.

	used. If not, logical justification for why it is accurate should be provided. The analyses that provided these estimates was difficult to follow. A clear explanation of the methodology used for estimating disturbed cress per well is necessary to understand this important issue and should be included in the final EIS.
-	5 2.1. The Processed Action Fifty water wells are proposed but their depth and location remain undetermined. If these wells are tribuary to the Plante of Colonado giver systems, formal consultation pursuant to the Act will be required to address impacts to listed species.
	2.2.Attenuiter.A SAA statuciter.A SAA statuciter.V SAA
	A nationary of 14 error of familians, or two wells, per priori studie in 28.2 v appear arbitrys: The memory The 14-based meaning method familians of their studies of the starts or public, agency, and resource speciality contents regarding potential impacts to sensitive resources The first for application documents in pipe familiage to 56 methods. Such a standard or public, agency, and and an application of the start of the start of the standard or public start of the start of the start of the start of the start and well specing, sensiti integral metage well density, and invite of development on adjustes Sam and well parking.
	Fungaphi 2 on page 3-2 separat to collifer with maniferi in Table 2.1, Prom Table 2.4, derivelypsen of 1 well will produce 3 dever of new, short-statistications (2 and sen of goal + grapm). It ensue of front and populate). This is constant with 23 areas pare will instanted Development and the statistication of the statistication of the statistication of the sequence of the statistication of

etter 94 - Michael M. Long, U.S. Fish and Wildlife ervice, Page 4

Mr Class Miller

Is orderpresent as privates or Batter lands tassed to high influencing practical by the BLM. However, where distant and provide the start of the SLA. How every provide the start of the start of the start the STA, Potterni lands development though the metricular to maintain semaphical provide the STA or Batter and the start of the STA or starts provide the start of the STA or starts provide the start of th

The last suscess of the flat perspective has page 2-4 suscessibly removes all contributions that differentiate the performed alternative from Alternative Alternative and alternative and the coursering in SR-AL. Thus, constainly, therease via Alternative and alternative in properturbed resources associated with the SR-AN- where they overlap of alternative and search associated with the SR-AN- where they overlap of alternative and search associated and the search associated with the SR-AN- where they overlap of alternative and search associated with a search associated with the SR-AN- where they will come in conflict with development of non-Fordin structures. The flat search and the logical process and the logical process are diversa under a search and the logical process and the l 10 rrine.

11 Z3 Alternative B As this is essentially the same as Alternative A with a 30-acre distarbance limit in SRA's rather than 14 acres, comments on Alternative A apply equally to this section.

12.5.2. Erolesc-wide Development Socializations Ten final Ells abauto ciutify il removal and modelling of topool included in estimates of the suscellated rouge. If not, it should be included. As executivation, minimum.ene, and operation of the suscellated roug and moves is likely so have be largest impact on widdlift, all measures to the surface disturi ce of road will benefit wildlift

2.6.3. Well Prd Construction There is no discussion of reserve pit designs to protect wildlife. As little as 5 years ago an end of the second seco integral part of the proc

Inter me stratand to sil jain ku painking dam for samari bokin of vanas. The staly neares of cell stratup bits in the jain as its wire jain form exposen at distantia. Bits it das do among no enops one die fran starvation or she tusis efficien of all lapated daring premise. Weterford grazing and-induces of oil can previewe in significant daring premise. Weterford and the enges. Meterstein starvation previewe in the star of the star-sunds their examing to their seats with 11 on thirf fathers can indevently apply the oil to the eggs. Meterstein storaget of the starbid daring by enge weterstein tytos to bit of 13 averagers and pred TYOS SC tors can also suffer adverse effe sta by consuming niled birds

A study of bird mortality in oil pits in Wyoming conducted by Brent J. Esmoil for the University of Wyoming demonstrated that determines such as flagging, strube lights, moth reflectors and

7.2.94	1 Letter 94 - Michael M. Long, Field	Letter 94 - Michael M. Long, U.S. Fish and Wildlife		
	Supervisor, U.S. Fish and Wildlife Service	Service, Page 3		
man	United States Department of the Interior	Mr. Clare Miller 3		
1	FISH AND WILDLIFE SERVICE			
	4000 Airpor PariothECEIVED	per well. The use of four different values estimating long-term disturbance (11.2 acres/well in the RMP; 9.0 acres/well based on an un-described analysis of current conditions; 4.02 acres/well		
	Cheyenne, Wyoming \$2001 JUL 2 7 \$233	for other projects; and 2.77 acres/well for this project) mises questions and concerns. These differences need to be explained more fully in the final EIS, and their impacts considered here		
		4 and in the RMP. If 2.77 acres per well is an underestimate, a more accurate value should be		
ES-6141	I BURGAU OF CARD MANAGEMENT July 23, 1999 Wileis mem (wy2535.df)	used. If not, logical justification for why it is accurate should be provided. The analyses that provided these estimates was difficult to follow. A clear explanation of the methodology used		
		for estimating disturbed ecres per well is necessary to understand this important issue and about be included in the final EIS.		
Memora				
Te:	Team Lead, Continental Divide/Warnsutter II Gas Development Project, Bureau of Land Management, Rawlins, Wyoming	2.1. The Proposed Action Fifty water wells are proposed but their depth and location remain undetermined. If these wells		
	la t-	I are tributary to the Platte or Colorado river systems, formal consultation pursuant to the Act will be required to address impacts to listed species.		
From:	Field Supervisor, Ecological Services, Cheyenne, Wyoming Mulacell 7.			
Subject:	Continental Divide/Wamsutter II Gas Development Project Druft Environmental Impact Statement	2.2. Alternative A SRA's should be defined and described fully before their discussion in this section. What		
		6 resources are being protected? How will the SRA's achieve this protection? What alternative mitigation measures might achieve the same level of protection? Answers to these questions are		
We have followin	reviewed the subject deaft environmental impact statement (EIS) and provide the a comments pursuant to the National Environmental Policy Act (NEPA), and the	necessary to develop alternative mitigation measures to apply in SRA's if disturbed area criteria		
Endange	red Species Act of 1973, as amonded (Act).	must be waived due to drainage of Federal minerals.		
	notand the preferred alternative consists of gas field development including the	A maximum of 14 acres of disturbance, or two wells, per Federal section in SRA's appears arbitrary. The statement "The 14-acre maximum surface disturbance criterie was developed		
	nent of up to 1,500 natural gas wells an Federal land, an additional 1,500 wells to be ad on private and State lands, 1,500 miles of new roads, 1,500 miles of new pipelines.	based on public, agency, and resource specialist opportunity regarding potential impacts to sensitive		
	lary facilities in Carbon and Sweetwater counties, Wyoming. Alternative A to ally the same with the exception of a surface disturbance limit of 14-scree per section of	7 resources* does little to explain and document the logic leading to this restriction. Such a restriction is also too vague to offer protection without other implementing rules addressing		
Federal :	surface in designated Sensitive Resource Areas (SRA's). Alternetive B differs only in	actual well spacing, overall average well density, and levels of development on adjacent State and privete lands.		
that the :	nurface disturbance limit in SRA's is increased to 30 scres per section of Federal surface,			
General	Comments on the Draft EIS	Paragraph 2 on page 2-5 appears to conflict with numbers in Table 2.1. From Table 2.1, development of 1 well will produce 7.6 acres of new, short-term disturbance (2.6 acres of ped +		
	ecists your efforts to reduce project impacts through the planning efforts contained in	approx. 5 scres of road and pipeline). This is consistent with 7.5 scres per well estimated from		
the Reck reduce a	emation, Transportation, and Wildlife Protection plans. Once instituted, they will belp dverse environmental impacts associated with project development. While we	is equivalent to development of 2 wells per section. However, the text states operators would be		
recomm	and some changes to Alternative A, in its current form it is preferable to the Preferred	able to develop 1 to 3 wells in addition to 1 for exploratory purposes. This would total 4 wells or 30 acres of new disturbance. We recommend you check for consistency in your calculations and		
	ive. We strongly recommend Alternative A be selected as the preferred alternative.	estimates of disturbance or describe the methodology used to reach these conclusions.		
We are o	oncerned with the approach the document takes to the NEPA process. Differences the preferred alternative, Alternative A , and Alternative B are little slight, suggesting	The statement (page 2-5, paragraph 5) "To accommodate surface disturbance limitation		
o that e ful	I mage of tilternatives contemplated by NEPA was not considered. Bocause of the board" Federal and non-Federal ownership, Alternatives A or B as written may further	9 requirements, Operators may limit surface disturbance through selection of alternative locations for ancillary facilities (a.g., nuttide SRA's or off Federal surface)" appears to treat		
reduce th	is range, depending on development activities. For example, under either alternative, if	management of SRA's as only a technicality of work on Federal surface. We recognize		
gas resou	areas are developed to SRA's, operators may concentrate development nff Federal			
Letter	94 - Michael M. Long, U.S. Fish and Wildlife	Letter 94 - Michael M. Long, U.S. Fish and Wildlife		
	p, Page 2			
GUIVICE	, 1 ago 2	Service, Page 4		
Mr. C	Clare Miller 2	Mr. Clare Miller 4		
surfa	ce, resulting in an overall disturbance density no different than outside of SRA's.	development nn privets or State lands cannot be significantly restricted by the BLM. However,		
af Fe	ermore, this concentration of development off Federal surface may lead to faster drainage deral gas resources, in which case both alternatives require surface disturbance restrictions	where adjacent non-Federal lands within SRA's have developed beyond the designated limit for		
be we	tived to protect Federal revenues. The result is these alternatives even more closely	9 the SiCA, Federal lands development should be restricted to maintain compliance with the intent		

unble the prefurred alternative. Review of Table 2.6, Summary of Impacts, largely bears out this concl One way to improve these alternatives would be to include additional miti SRA's that are not associated with acres of surface disturbance and are thus independent of problems associated with protecting drainage of Federal minerals. For example, use of above ground power lines could be restricted in the vicinity of sage groune leks or pesting habitat to

growing power mass output or relatives as we reason to age, grower mass to usually ensure as reduce predator perch sites. With a clearer undertanding of nature of the SRA's and the resources they are designed to protect, editer such miligation measures could be tuggested. The final EIS should be reformulated in this manner to analyze the impacts of a broader mage of alternatives.

Specific Comments on the Draft EIS

1.2.4 Land Lise Planning

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Lat Late Link Pressure Late Late Link Pressure and the integration of publicles laid one is the Cont. Divide, Resource the measurement of the integration of the late Link Press, and the late Lin

In light of this, import measurement and plenning deviations should be revision prior to successful the measure in the results of the successful terms in the result of the successful framework in the number of wuld deviated and the successful ty true given new information behaling the pro-to list the measurement of the successful ty true given new information behaling the pro-to list the measurement of the successful terms of the successful terms of the successful successful terms of the successful terms of terms of the successful terms of term

Colonistions of disturbance in the draft EIS for the Creator/Bitze Gap, Mulligan Draw, Hay Reservoir, Sierra Madra, Dripping Rock and South Baggs project (other projects) wells sugges that there are only 4.02 some of long-term disturbance per well (1,200 stress / 298 wells). The Continuent Divide/Wennutzt (1 (CD/WD) project proposes 2.77 stress of long-term disturbance 4

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Letter 94 - Michael M. Long, U.S. Fish and Wildlife Service, Page 5	Letter 94 - Michael M. Long, U.S. Fish and Wildlif Service, Page 7
Mr. Clare Miller 5	Mr. Clare Miller 7
In the micro were or difference approveming bed constrained in the second part is a down part. I have a second part of the sec	 apportine large intensit, and if access in the direction type will be does using * sensitive and the own large * sensitive intension sensitive of intent sensitives, and intensitives, and the sensitive intensitives, and the sensitive intensitives, and the sensitive intensitives, and the sensitive intensitive intensitive intensitives, and the sensitive intensitive intensitis intensitive intensitis intensitive intensitive intensitive in
an the indexing: Yes of the indexing: Yes of the indexing is a second provide the indexing of thexing of the indexing of the indexing of thexing of the indexing	Institut effective Lyp for project, wattere or freedom's another, and the second secon
Voint 16, regerting black-thooted first survey requirements easies clarification. While the operators may be involved in discussions regarding services 7 compliances of the permitting activity, responsibility lies with the IAL to anview projects for the socaratio of anyows. When a result of the source of the socare of the discussions within a priorite forg colory, BLAM personnal should roouth the Service's Black-Concer there Survey. Guideline The Concentions with the source the Service Black-Concer there Survey. Guideline The Concentions with the source of the Service Black-Concer there Survey. Guideline The Concentions with the source of the Service Black-Concer there Survey. Guideline The Concentions with the source of the Service Black-Concer there Survey. Guideline The Concentions with the source of the Service Black-Concer there Survey. Black-Concer the Survey. Black-Concer there Survey. Black-Concer the Survey. Black-Concer there Survey. Survey. Black-Concer there Survey. Black-Concer there Survey. Black-Concer there Survey. Survey. Black-Concer there Survey. Survey. Black-Concer there Survey. Survey. Black-Concer there Survey. Black-Concer there. Survey. Survey. Black-Concer there Survey. Survey. Black-Concer there Survey. Survey. Black-Concer there Survey. Black-Concer there. Survey. Black-Concer there Sur	This section outlines in fairly analysis of the section of linearchard materials and a section of the section o

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Exclangered Societs Act, (Perret Survey Oricializes). This document clearly defines sharing dates surveys ter required to alter ground-disturbing activities for compliance with the Act. Due to some resent confacto some DLAD genocodo over interpretation of the Ferret Survey disturbing, we recommend initiation of linkensi consultation prior to permitting ground-dimenting activities within priorite day tuwas or complexes. Post 16 should be changed to reflect this process

18 To reiterate, Polar 18 should be changed to state that no water tributary to the Planc or Colorado river systems will be utilized without first consulting with the Service for effects to downstream listed species parasets to the Art.

12.2.1.1.5mm². Themself. Themself. Themself. The control from the Themself. Themself. The second or design of themself. The second or design of themself. The second or design of the themself. Second is the second s

2.3.2 Birds

1.2.2.2.Boig Pover poles provids handing perches for regions and see consequently evoided by age grows. Availabless it grant enough that callable kabits which is which if pover poles may be susand by 200 point. Best of this facilities framework with provide and an elevation to include to one 200 point. Best of this facilities frame with by provide and an elevation to the set. In the fact, they hould its further strends to a situation of the set of the set. The fact, they hould its further strends to a situation of the set. The fact, they necessarily an elevation of the set of the set of the set of the fact of the set of the necessarily set. The set of the necessarily set. The set of the necessarily set. Set of the necessarily set of the set of th

4.2.5.1 TES Species. Proposed Action and 4.2.5.5. Mitigation and Monitoring

21 Please note that mountain plover survey guidelines have changed. Current survey protocols are

22 Fibit 4.16.11.M maximum for investory, available and meta-field of TEC points We construct you efficie to a double is investored on the independent efficies. Second Technic actions by long out these publicless for summiter, Federal mergenshill for a discour-non-Peteral match. However, then publicless paper to bightly but againstand by in cell in discours for market. However, the index index in a second mergenshill with guidance we have availed in the typeration SLA Office. The table stars that of income for market action is an advantage second mergenship mergenship.

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oblighting would not gettily researed controlly approved purposed or family discussion provides the first instances provides on sides constitutions on the play of 40 downian or the HAL as the responsible spaces. Clarification obtained be provided on what it have if of gamps ablighted in the maximizing in and both LAW will provide their when we validate SRI and BLA's ability many first and the start of th 23

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The BLM benry the ultimate responsibility to ensure that wildlife resources are adequately protected from project impacts. We necessarily you drivelop bioding agreements with the Operators, as beneficiarises of the proposed project, to ensure data are collected, analyzad, and presented in a manore to allow simply and accurate decisions for protecting these resources. Due to the second se offlice requests to be involved to the extent necessary to ensure data and analyses meet our requirements for supporting effects determinations pursuant to section 7 of the Ast.

Specific Comments on Appendix D. Wildlife Protection Plan

This table identifies more intensive investory and nonincring efforts on hards where development will be 2-6 locations per action. To make the effort more informative and allow summitteness between development intensive metal impact, investory and non-beinging about the evolution of the mer and a fust 1 year prior to surface distributions. This will allow research provide the summary and the strategiest provide the summary of the summary Table D-2.2 This table identifies more inten

usvetopment of the most effective protectico measures. The more this approach is viewed as a research project, the more useful the results will be.

25 Date to confinition over interpretation of Ferret Survey Guidelines in the past, we request to be involved in discussions of whem black-footed ferret surveys should or should not be required until further notice.

D-2.2.2.3. Mountain Plover This section should be updated to reflect our new survey guidelines. In particular, we 134 serious acoust les viguests or meters care are server guidalisme. In parcicular, we morrorment de la biologia desages acousticabilités in defaut de la serie reserver publicates carectarias para entre entre desages and series desarritaing series la server, nature dans de defaution in desa de la serie desarritaing series la server), nature dans de defaution in desa de la serie desarre de la biologia de la serie desarre desarritaing series de la serie de la series de la serie de la series de la series de la series de la serie de la series de la serie deserie de la serie deserie de la serie de

27 D-2.2.2.5. Other TEC&3C Species We request to be informed of any observations of faderally listed, proposed, or candidate species made during surveys.

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D-2.2.5. Other Inventory and Monitorian Measures If an understanding of the mechanisms and relationship between high levels of development (e.g., 5 wells per section) is desired, studies will need to include pre-development sampling as well as a range of distarbance (e.g., 4, 2, and 0 wells per section) to recognize sampling in research would be very useful in future management of field development, reducing impacts while expediting future development. However, it will acce to be planned in advance of 28 completing the highest level of development and will likely cost more than \$10,000 prever (assuming 1:1 match of Operator's \$5,000 cm). If this is to be a meaningful minipation tochaiges, we recommend increasing the Operator's commitment to a minimum of \$10,000 and planning and inflating studies based on expected development at least 1 year in advance.

31

D-3.3.1. Restors If structures requiring repeated visits will be constructed near active uests, we recommend they be placed at least %-mile from the next, with the exception of ferruginous hawk and federally 29 listed species, where the dist ance should be 1 mile.

30 D-2.3.2.1. Black-footed Forest As already stand, until further notice, we request to be involved in discussions of when black-footed forret surveys abould or should not be required. Please charge this section socordingly.

General Comments on the Biological Assessm

We have reviewed the biological assessment (BA) for the Continental Divide/Warmautter II Natural Oas Project and provide the following commants pursuant to the Endergered Species Act of 1973, as amended

"Our office was consulted on the Great Divide Resource Area RMP. At that time, we ****Ore officer was nonside a da dotte Divis flasteres Ansk. Rol7. A das das, we mannos flast presents for al ung as evidences winds also as (ADV2821) efforts on a second sec

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The complex nature of surface ownership in the Project Area will produce somerous intervise and introdependent actions on no-Folenti surface. Where 8 ROW points will involve both federal and no-folentia surfaces, and thornally inter Operanded, considiers anoise or stuliat labits area be affected by the solon, we request to be informed of the Plan of Development, areficer resources to a selfacet, and antibodia used to document have resource and analyze

E-5.2.6. Mountain Plover

b:2.3.6. Notigitant Please Please note that the meaning lower is no longer o candidate species, but has been preposed for litting as threasened. Mere tuning restrictions for construction activities in similar habitate and not be a sequent for herpeics becomes litted. A tax tune, hubitot is a hirsflet large adversely affect the species. requiring formal consultation. Survey protocols here not throughout the document about be updated librowide here are more guideline (matched). 39

Version with the spectra of the proposed project may adversely differ the measurable for account of the spectra of the proposed project may adversely differ the measurable content of domains for the spectra, how a voltage domains of the spectra of the domain of the spectra of the spectra of the spectra of the spectra of the domain of the spectra of the domain of the spectra domain of the spectra of the spectra of the spectra of the spectra domain of the spectra of the spectra of the spectra of the spectra domain of the spectra of the spectra of the spectra of the spectra of the domain of the spectra of the spectra of the spectra of the spectra of the domain of the spectra domain of the spectra domain of the spectra o

Formal conference resulting in a conference report will provide several beaching to the BLM and the Operators. Operators do not have a clear understanding of how their actions may affect mountain prover. Illewise the Service does not have complete understanding of the gas development process as it relates to the species. Formal conferencing will allow for this 40 or evolution for the first set of the set of that may make it. "many, it to exercise is made to its dam moments prove as interested in February of 2000, the conference report may easily be transformed into a biological opician with little datay to BLM's permitting process or the operator's development activities. The product would be a single programmatic consultation for many activities associated with development, operation, and resituation of the proposed Project, pently expediting section 7 compliance.

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Specific Comments on the Biological Assessment

E.1.0.introducion The definition of critical habitar peevided in not scores. Critical habitat for a threatment or prographical area completely for aposition at the time of "intrage" that the fam "interpreting locations..., "(appendix adding) area and in the scores, Series discussion of "specific locations", and the score of the scores in the scores of the scores of the score of the score of the score of the score of the scores of the score 32

33 Table E-L.1 Transtanted. Endstanzared. Candidate Sortists The mountain plover is no longer a candidate for listing as stated in this table and accompanying text. It is now proposed for listings and transtances (see similarity).

34

E-5.1.1. Block-footed Fermi Because of the complexity of the proposed project, the extensive area of suitable habitat in the Project Area, previous observations of the species in the vicinity of the proposed project, and the extremely tenuous nature of the black-footed ferret in the wild, we cannot occour with your extremely lunced nature of the black-board ferrit in the villa, we cancet course villa year barboard of the second second second second second second second second second protocol second second viel with the second second second second second second second protocol second se

35 The words "on a site-specific basis" may be mislending. When surveys are required, the entire town afficted by the proposed project should be surveyed, either than a "site-specific" serech of the afforted portion. Also, these surveys are required even if some areas within the prairie dog town have a burrow density (see than \$40mm.)

Searches must be conducted prior to execution of the Federal action. This may be issuence of a permit (e.g., APD, ROW) by the BLM. It may be setual construction activities when the project is to be carried out by the BLM. Used no clearmateroad solution stravey is occutated after issuence of a permit have "point to construction scattivity" as stated in the set. We recommend this to charged in "point to permit images or Federa construction activity." 36

To ensure that the Peret Peret Outbilling are bound to inform the interpreted and surveys are bolin conducted where appropriate, the Service about 4 to informed where surface distributions will be permitted a carried out willing up valies day collaries or complexes. Detailed and applicability of surveys with surgets to its Terret Survey Guidelines should be throughly documention and documentions provide in the difference to project permitting or indication. 37

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Mr. Clare Miller

Summers

alosing, we apprecises your afforts to develop mitigation for the impacts of project elopment and include the Service in the review process. Though we feel that the alternatives uid be modified to address our stated concerns, we encourage selection of Alternative A as it develops is the least damaging alternative to wildlife re-

We believe that these alternatives would be improved if additional, acreage-independent mitigation measures would be triggered to offset the waiving of surface disturbance limits due to durinage of Federal minestals. Without a elevener understanding of the resources to be proceeded. we cannot offer specific mitigation measures at this time

We approach as your offices to start data yologi in mapping intermediated and interdependent actions on non-Ardenia transmissional control data in the control data i

Appendix D, the Wildlife Protection Pien, will only be as good as allowed by available fait and personal commitment. We recommend that firm commitments for monitoring and invensory funding and personnal be provided by all perturbative involved in Project devicement coder to dafato needs and better guide outcortes, specific monitoring proposals should be deviceped, including objective and method. 41

Due to inconsistencies in application of the Ferret Survey Guidelines across the State recently, we request close coordination when project activities may affect black-flood ferrets or minible habitst. In addition, we recommend the Bureau initiates informal section 7 consultation with the vice to address impacts of the proposed project on the ferret

New information is exicitly neuralize working worklinks on the little-studied automation players. In strate and other that care are strateging from proposed neuralized to a strateging of the players of 2000. We recommend survey requirements be changed to inflate neural strateging and players. The strateging of periodic la tra poorthy houses, we had that fractional confirmation on the paperial and proposed Project probability as programments decomment, we hope to minimize forgers to the sponte and minimized strateging a programment decomment, we hope to minimize forgers to the sponte and minimized strateging and the loss garment.

Thank you for your assistance in the conservation of federally listed, proposed and candidate species, migratory birds, wetlands, and our other shared trust resources. If you have any quantions or comments, please feel free to connect David Felley at the letterhead address or by ne at (307) 772-2374, extension 23.

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Mr. Clare Miller Attachments (2)

cc: Director, WGFD, Cheyenne, WY Nongame Coordinator, WGFD, Lander, WY Letter 94 - Michael M. Long, U.S. Fish and Wildlife Service, Attachment Page 2

during nesting) will leaven the channe of direct impacts to and mortality of individual mountein plowers in the area, there ascissions of onlonging on trappare individual effects, including changes in habits suitability and habits loss. Surveys an, however, a necessary starting point. The Sorvice has dividually and the following 3 surveys plusianes, depending on whather the linent is to determine the presence or absence of plowers at a fee during inovers.

Survey Protocol

13

Two types of surveys may be conducted: 1) surveys to determine the presence/bacene of theoring privers (a. displaying makes end forging extuals), or 2) surveys to determine next density. The survey type theses for a project and the extent of the survey are (a. b. syped fit and go of the construction or operational ROM) will depend on the type of project ativity being endysed (e.g., construction, used in northwatem (Construction and the dust) of a Source's survey brave displaying make provem so frampling adults. The other was developed to only determine whether proven coopy in an ens.

Techniques Common to Each Survey Method

- Conduct surveys during early courtship and territorial establishment. Throughout the breading range, this period extends from approximately mid-April through early July. However, the specific breading period depends on latitude, elevation, and weather.
- Conduct surveys between local sunrise and 1000 and from 1730 to sunset (pendots of horizontal light to facilitate spotting the white breast of the adult plovers).
- Drive transects within the project area to minimize early flushing. Flushing distances for mountain provers may be within 3 metors for vehicles, but plovers often flush at 50 to 100 metars when approached by humans on foot.
- Use of a 4-wheel drive vehicle is preferable; however, fallow agricultural fields present an access problem. Use of ATVs has proven highly successful in observing and recording displaying melas.
- Stay in or close to the vehicle when scanning. Use binoculars to scan and spotting scopes to confirm sightings. Do not use scopes to ecan.
- Do not conduct surveys in poor weather (i.e., high wind, precipitation, etc.).

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- Surveys conducted during the courtship period should focus on identifying displaying or calling males, which would signify breading territories.
- For all breeding birds observed, conduct additional aurways immediately prior to construction activities to search for active nest sites.
- If an active next is located, an appropriate buffer are a should be exhibitions to prevent direct less of the next or indirect impact from numer-related disturbance. The appropriate buffer distance will vary, depending on topography, type of activity proposed, and duration of disturbances. For disturbances including protestian for traffic and contrauted express operations, a 200-metro type in encommended.

SURVEY TO DETERMINE PRESENCE/ABSENCE

- Conduct the survey between Msy 1 and June 15, throughout the breeding range.
- Visuel observation of the area should be made within 200 m of the proposed action to dated the presence of plovers. All plovers located should be observed long enough to determine if a cast is present. These observations should be made from within a stationsry vahicle, as plovers do not appear to be wary of vahicles.
- 3. If no visual observations are made from vehicles, the snea should be surveyed on ATVs. Etrame even should be avacated in locating plavars, due to their highly secretive and quiet nature. Surveys by front are not recommended because joivent thand fallwait a greater distances when approached using this method. Finding nests during foot surveys is more official because of the greater fusiting distance.
- A alta must be surveyed 3 times during the survey window, with each survey separated by at least 14 days.
- initiation of the project should occur as near to completion of the survey as possible. For example, selamic exploration should begin with 2 days of survey completion. A 14 day partied may be appropriate for after projects.
- If an active rest is found in the survey area, the planned activity should be delayed 37 days, or one week post-hatching. If a broad of flightless chicks is observed, activities should be delayed at least seven days.

Scruice, Attachment Page 1 MOUNT APOUNT BUVEY GUIDELINES U.S. Plan tand Wildlike Service 1989 The mountain plower (Chewaddar, montanue) is e small bid (17.3 r.7 in i) should have d e killeer (V. coeffand), it is light brown show with a lighter colored break, but dade the During the breaking season has a with behavior and a dank

Ine between the beak and eye, which contrasts with the dark

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Mountain powor treaking habita is known to holdus shordgrass prairie and shoutange landcapes (wind, advired) fame, and prairie do graven. Roven sussipnet on sites where vegetation is spense or bekent, alou to disturbance by trahtbores, holding downet, behancing prairie dogo the Vegetation at an advances prairie dog behances. Next are constrained to the state of the state of the state of the state stapps introduces, built with the shrb-been band on oil disturbance downet. Next are constrained by have also been band on oil disturbance disturbance by prairie dogo of behands, they have also been band on oil disturbance downet. Next are constrained by have also been band on oil disturbance disturbance by prairie dogo of behands, they have also been band on oil disturbance downet. Next are constrained by have also been band on oil disturbance downet. Next are constrained by have also been band on oil disturbance downet. Next are constrained by have also been band on oil disturbance downet. Next are constrained by have also been band on oil disturbance downet. Next are constrained by have also been band on oil disturbance downet. Next are constrained by have also been band on oil disturbance downet. Next are constrained by have also been band on oil disturbance downet. Next are constrained by have also been band on oil disturbance downet. Next are constrained by have also been band on oil disturbance downet. Next are constrained by have band on the observed by the ownet also also downet. Next are constrained by head and and and also downet. Next are constrained by head and and and also downet. A state and by have also been band and and also downet. A state and by have also been band and and also downet. A state and by head and and and also been band and also downet. A state and by head and and also downet. A state and also and also been band and also downet. A state and also and also been band and also downet. A state and also and also been band and also downet. A state and also and also been band and also downet.

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These guidelines were developed by Service biologists Pat Delbert, Lou Hanebury, and Bob Leachman, end Dr. Fritz Knopf, USGS-BRD. Keep in mind these are guidelines – please call Bob Leachman et 870-243-277 df you have any suggestions.

GENERAL GUIDELINES FOR SURVEYS

On Packway 18, 1028, the Barrids propaget the mouthin player for factors littly age investment. Because littling of the societies is propaget, the Barrids may approximant surveys for mountain players to better define nesting rates, and minimize potential magnetism singusts. The Service moortmain surveys for formation players in a Lautable planned for development. While the Service belaves that player surveys, providence of trating nesting centers, and there shall player access, providence of transfig and thordo starting seets, and there shall player access, providence of transfig and thordo starting seets, and there shall player access the sections of important scenario Letter 94 - Michael M. Long, U.S. Fish and Wildlife Service, Attachment Page 4

SURVEY TO DETERMINE DENSITY OF NESTING MOUNTAIN PLOVERS

We are assuming people will have received training on point counts in general bafore using this specialized point count technique adapted to mountain piovers.

Establishing Transects

- Identify appropriate habitat and habitat of interast within ceopraphic areas of Interest
- 2 Upon arriving in appropriate habitat, drive to a previously determined random starting point
- 3 For subsequent points, drive a previously determined random distance of 0.3, 0.4 or 0.5 miles.
- . Each transect of point counts should contain a minimum of 20 points.

Conducting The Point Counts

- 1 Conduct counts between last week in June to July 4th at eastern plains elsvation in Colorado.
- 2 Only 1 counter is used. Do not use a counter and recorder or other combinations of field help. Drivers are okay as long as they don't help spot niovers
- If an adult mountain plover is observed, plot occupied territories on a minimum of 1:24,000 scale mep end on a ROW diagram or also grid (see attached). The ROW diagram will be at a greater level of detail, displicing the location of breeding birds (and possible nast alles) relative to ROW canterline, construction boundary, 3. and applicable accass roads.
- 4. Estimate or measure distances (in meters) to all mountain piovers. Method used should be noted, e.g., estimates widistance training, estimates w/o distance training, rengelinder or measured with tape measure, etc.
- 5. Record "fly-overs" as "FO" in the distance column of the data sheet.
- 6. If you disturb a mountain plover while approaching the point, estimats the distance from point-center to the spot from which the bird was fluehed.

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- 7. Conduct counts for 5 minutes with a 3 minute subsample to standardize with BBS.
- 8. Stay close to your vehicle while scanning.

Recording Data

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Record the following information AT EVERY POINT, EVERY DAY,

start time

- unique point code (don't duplicate within e field crew or across dates)
- number of mountain ployees and distance to each a subsective land use and/or habitat type (e.g., failow wheat, plowed, shortgrass) temperature, Beaufort wind, and sky conditions (clear, partily cloudy, overcast)
- information on the data sheet somewhere.
- your name and eddress
- Record for each point at some point during the census.
- Record for each point at some point during the cansus, detailed location description of each point count including road number, distance to important intersections.
- record transect and point locations on USGS county mans
 - Universal Transverse Mercator from maps or GPS are useful.

GENERAL HABITAT INDICATORS

Positive habitat images Stock tank (non-leaking, leaking tanks often attract kilkdeer)

- Fist (level or "tilted) terrain
- Burned field/prairie/pasture
- Bare ground (minimum of 30 percent)
- "Spaced" grass plents
- Preirie dop colonies
- Homed larks
- Cottle
- Heavily grazed pastures

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Ocuptie pade visible

Nagativa habitat images Kilideer present (indicating less than optimal hebitat)

Hilisides or steep slope

Prominent, obvious low ridge

Leaky stock tanks

Vegetation greater than 4 inches in height

increasing presence of tall shrubs

Metted grass (i.e., minimal bare ground)

Lark buntings

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List of Subjects in 47 CFR Part 73 Radio Broadcasting. Federal Communications Commission Manalla Roman Salas Correctory IER Dor: 99-3569 Filed 2-12-99: 8:45 aml BLAND CODE 6712-01-P _____

DEPARTMENT OF THE INTERIOR

Fish and Wildlife Service

50 CFR Part 17

DIM 1015-AE25

Endangered and Threatened Wildlife and Plants: Proposed Threatened Status for the Mountain Ployer

AGENCY: Fish and Wildlife Service.

ACTION: Proposed rule.

summany: The Fish and Wildlife Service (Service) proposes to list the mountain ployer (Cheradrius montanus) as a threatened species pursuant to the Endangered Species Act (Act) of 1973. The mountain plouer is a bird of shortgrass prairia and shrub-steppe landscapes at both breeding and wintering locales. Breeding occurs in the Rocky Mountain States from Canada south to Mexico with most breeding birds occurring in Montane and Colorado Most winterine birds occur on grasslands or similar landscapes in California: fewer wintering birds occur in Arizona. Texas, and Mexico. Breeding Bird Survey trends analyzed for the period 1966 through 1996 document a continuous decline of 2.7 percent enquelly for this species, the inhest of all endemic grassland species Retween 1966 and 1991, the continental population of the mountain plover declined an estimated 63 percent. The current total population is estimated to be between 8,000 and 10,000 individuals. Conversion of grassland habitat, agricultural practices, management of domestic livestock. and decline of nativa herbivores are factors ther likely have contributed to the mountain plover's decline. Pesticides may be a fector contributing to the decline of mountain plovers, but their effects are not completely understood. DATES: We must receive comments from all interested parties by April 19, 1999. We must receive requests for public hearings by April 2, 1999. annegenets: Send comments and materiels concerning this proposal to

the Assistant Field Supervisor, U.S. Fish and Wildlife Service, 764 Horizon

Drive South Annex A. Grand Junction. C. Jorado 21506-2016, "Ve will muse comments and materials we receive available for public Laspection. by eppointment, during wormal business hours at the above address. BOD ENERGIES INFORMATION CONTACT E-Jose Leschman at the spoya address. telephona 970/243-2778; fecsimile 970/ 245-6913 SUPPLEMENTARY DIFORMATION-

Background

The mountain plover (Cheradrius montanus) was described by John K. Townsend in 1837 from specimens collected near the Sweetwater River Fremont County, Wyoming (Cours 1874. cited in Laun 1957). This species was originally named the Rocky Mountain ployer because the first specimens were taken within sight of those mountains (Oberholser 1974). The mountain ployer has since been known by several different scientific names, as well as other common names. The species name Characleius montanus was formally adopted by the Committee on Classification and Nomenclature of the Liassurcation and remenciature of the American Ornithological Union in 1983 (R. Banks, National Biological Service, pers. comm., 1994). Three are no abspecies (Oberholser 1974). The mountain plover is a small bird (about 17.5 continuetors (cm)) (7

ches)(in)), about the size of e killdeer (Characirius waciferus). It is light brown above with a lighter colored breast, but lacks the contrasting dark breastbelt common to many other plovers. During the breeding season it has a white forehead and a dark line between the beak and eye, which contrasts with the dark crown. "Jountain olovers are insectivorous, with breties, grasshoppers, crickets, and ants their principal food items (Stoner 1941. Idwin 1971, and Rosenberg et al. 1991, Knopf 1998).

The mountain plover is associated with shorterass and shrub-steppe landscapes throughout its breeding and wintering range. Historically, on the breeding range, it occurred on nearly denuded prairie dog towns (Knowles et al. 1962, Olson-Edge and Edge 1967) and in areas of major bison concentrations (Knopf 1997). Many consider nesting mountain plovers to ba strongly associated with prairie do towns (Tyler 1968, Knowles et al. 1962, Knowles and Knowles 1984, Sheckford 1991 Seman and Knopf 1994, Knopf 996bl, All of the endemic grassland birds evolved within a grassland mosaic of lightly, moderately, and heavily grazed areas, and mountain plovers ere considered to be strongly associated

to the point of excessive - urface disturbance 'Knouf and Miller 1991. Knowf 1996b). Currently, the incuntain plover is also attracted to man-made ndscepes (e.g., sod farins, cuitivated Batala' that mimis the partical balance associations, or sites with graveland characteristics (alkall flats ottor apricultural lands). Nesting mountain plovers are reported in some of the Rocky Mountain and Great Plains States from Canada south to Texas, and possibly in Mexico Most mountain plovers breed in Colorado and Montana: breeding also to. occurs in Wyoming, New Mexico. Atizona, Nehraska, Utah, Xensas, Fish Oklahoma, and Texas, Breeding is suspected in Mexico and historic and nesting records occur from Caneda Nearing hebitat in Canada is restricted to southeastern Alberta and southwestern \$ Saskarbewan, Breeding adults, nests, and chicks have been of /ildlife cultivated lands in Colorado, Kansas. Nebraska, Oklahoma, and Wyoming Most mountain ployers winter in California where they are found on Service, ET. estincts or landscapes resembling ssiands and cultivated fields many wer wintering ployers are reported from Arizona Texas and Mexico. The mountain plover is one of nine bird snectes endemic to the North Attachment American grasslands (Knopf 1996a). Endemic entraland birds have declined more rapidly than other species in

with sites of heaviest grazing pressure.

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North America, and the mountain over's decline is greater than that of the other grassland endemics (Knopf 1994: Sever et al. 1997). Unlike other wers, mountain ployers are rarely found near water. Habitat Characteristics

Mountain ployers evolved on

grasslands that were inhabited by large numbers of nomedic grazing ungulates such as bison (Bison bison), elk (Cervus elephus), pronshom (Antilocapra ericensi, and burrowing mammals such as kangaroo rats (Dipodomys sp.), prairie dogs (Cynomys sp.), and badgers (Taxidea caxus) (Knopf 1995a). The herbivores dominated the grassland landscape at both breeding and wintering sites, and their grazing, wailowing, and burrowing activities created and maintained e mosaic of vegetation and bare ground to which mountain ployers became adapted (Dobkin 1994, Knopf 1995a). Short vegetation, bare ground, and e first topography are now recognized as habitat-defining characteristics at both breeding and wintering locales (Graul 1975, Knopf and Miller 1994, Knor Rupert 1995), Mountain plover

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sites are dominated by short vegetation Life History

and have ground, often with mamire piles or rocks nearby. Mountein provers historically pasted on black telled prairie dog (Cynomys ludovicianis) muns (Flowers 1985 Godhey 1992. Kantrud and Kologiski 1952, Knowles et at 1982 Knowles and Knowles 1993) or other areas heavily grazed by proirie hashingses.

Currently, in addition to nesting on prairie doe towns, mountain ployers show a strong affiliation for sites that are heavily grazed by domestic livestock (e.g. near stock watering tenks), and also ettempt breeding on fallow and cultivated fields which mimic natural habitats (Knoof 1996b). In California. many of the preferred winterine sites are erazed by domestic livestock, or are within elect kangaroo cat (Dicodomy) ingens) precincts or California ground soutrel (Spermophlius beechevil colonies (Knonf and Rupert 1995). Winterine mountain ployers in Mexico are almost entirely associated with prairie dog towns (N. Kaufman, U.S. Fish and Wildlife Service, In Jitt. 19981. Since mountain ployers are usually associeted with sites that are modified by grazing and disging mammals, Knopf and Miller (1994) suggested classifying the mountain ployer as a species more closely associated with disturbed preirie eltes, rather than pristine prairie leaderanet

Bison and elk are now functionally extirpeted from all mountain plover breeding habitat, and numbers of pronghorn are greetly reduced. Similarly, prairie dog end/or kangaroo rat numbers are greatly reduced on mountain plover breeding and wintering sites. Now, the primary grazer on both breeding and wintering hebitat is domestic livestock, eithough prairie does and/or giant kengeroo rats influence hebitat locally et a few sites. Current domestic livestock grazing ment emphasizes rotating the animals in time and spece among allotments within fenced nastures (Dobkin 1994, Knopf 1996c), Currently accented domestic livestock grazing manegement mey cause grasses to become more dense and uniform in height, decrease the emount of bere ground, increase the abundance of shrubs, and reduce the frequency and effects of fire (Knopf and Rupert In press, Dobkin 1994). Therefore, some more of domestic livestock grazing management techniquas do not result in the seme hebitat characteristics as those created by the native herbivores, with which the mountain ployer evolved.

Mountain pleasers arrive on their breeding grounds by late March. The nest is a simple scrape on the ground which is lined with organic debris (Graul 1975). Nests typically occur in areas with venetation lets than 10 cm (4 in) in height, with at least 30 percent have around and with a conspicuous object such as a manure offer clump of forbs, or rock nearby (Graul 1975, Knopl and Miller 1994. Olson and Edge 1985. Knowles and Knowles 1995, Although short vegetation, bare ground, and an object are characteristic of nest sites, the exence of some tailer vegetation to shade chicks and adults also has been reponed as necessary (Shackford and Lesile 1995a), Nest sites occur on ground with less than 5 percent slope. which is usually heavily grazed by domestic livestock and/or prairie dogs (Graul 1973, Kentrud and Kologista 1982. Knowles and Knowles 1996). Vecetation at next sites throughout the breeding range is variable, but usually dominated by needle-and-thread (Stron comera), blue gramma (Bouteloue eractite), buffalo grass (Buchlog dactvioides), plains prickly pear cactus Opuntia polycantha), June grass (Koelerie cristata), and sage (Artemista sp.) (Graul 1975, Parrish 1988, Day 1994, Knowles and Knowles 1000 On the Colorado breeding grounds

flocks of mountain plovers begin to form as early as mid-june prior to migration to wintering habitat. The flocks increase In size until mid-August, and than depart for the wintering grounds between August end October (Graul 1975). Mountain ployers begin to arrive on wintering grounds in California by September, but do nuc uppear in inree numbers until November (lurek 1973; Keonf and Rupert 1995). Two mountain ployers that were color banded in Colorado in 1992 were seen in the San Inamin Valley of California the same year, representing the first direct link tween breeding and wintering habitat for the species (Knoof and Rupert 1995). A mountain ployer banded as a chick in Phillios County, Morrana, In 1995, was seen in the Sulphur Springs Valley of Arizona on January 1, 1998, supporting other indications that the fall migration to wintering habitat is less direct than migration to breeding grounds (F. Knonf, USGS-Blological Resources Division, pers. comm. 1998. Knopf and Rupert 1995)

Ristorically, the mountain ployer has been reported from e veriety of habitats during the wintering period. Including grasslands and agricultural fields in California (Tyler 1916: Grinnell et al.

1918: Beiding 1879 In Grinnell et al. 1918: Preston 1981 in Alone et al. . 990: Werschkull et al. 1954 an Moore et al. 1990). Mora recently, mountain provers are recorded from natural noncultivated sites such as alkall sink scr.b. valley sink scrub, alkali playa, and annual grasslands (S. Fitton, Bureau of Land Management (BLM), m /itt., 1997, Snopf and Rupert 1995) in the Central Valley. Although cultivated land is used by wintering mountain ployers and is more undant than noncultivated land. ъ Knonf and Rupert (1995) found that mountain plovers preferred alkali flats burned grasslands, and grazed annual grasslands to cultivated sites. Grazing on such grassland sites was usually by domestic livestock or burrowing mammals (Knopf and Rupert 1995). Mountain plovers are gregarious on their wintering habitat. Flock size and mernens from about 20 to 180 individuals, increasing in size as spring migration approaches (Knopf and Rupert 1995), Flocks with up to 1,100 Individuals have been reported from the San Josquin Valley and Imperial Valley (B. Radke, Service, in litt. 1992, Knopf and Rupert 1995), Mountain ployers Ser begin leaving wintering areas by mid-March end may make a nonstor migration to breeding grounds (Knopf VICE and Rupert 1995). In general, mountain ployers spend about 4 months on breeding grounds. 5 months on wintering politist, o months on time mostly in their fall migration (Knopf and Rupert 1996). Breeding Distribution and Abundance

As discussed by Knonf (1996), the continental breeding range of the mountain ployer has been reduced from its bistorical extent especially in the eastern portion of the range. The mountain ployer was formerly com In western and central Kansas (Goss 1591), and reported as numerous between Fort Supply, Oklahoma and Dodge City, Kanaas (McCauley 1877). The species is considered to have been historically numerous in Colorado (Bailey and Niedrach 1965) and Wyoming (Knight 1902). Mountain plovers formerly occupied western South Dakora (South Dakora Ornithologist's Union 1991) and Nebrasks (Knopf 1996), and there is one known breeding reference in North Dakota (Roosevelt 1885). They may have bred in northern Mexico in 1901 (Sanford et el. 1924).

Colorado

Mountain ployers have been studied more intensively in Weld County than any other location throughout their tange, Graul and Webster (1976)

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considered Weld County the breeding stronghold for the n-ountain ployer. I conclusion widely referenced by subsequent authors (e.g., Knopf and Rupert 1996). Inventories completed by the Colorado Bird Atias Partnership from 1957 through 1995 reported mountain ployers from 8 percent of the survey blocks inventoried in eastern Colorado, and the number of mountain plover sightings in some survey blocks was nearly equal to or greater than those monted from Weld Cuunty (H. Kingery, Colorado Bird Atlas Partnership, pers. comm., 1994, in litt., 1996), Kingery (. litt., 1997) estimated that about 7,000 ry (In mountain plovers breed in Colorado. and that about 1,500 of those breed in Weld County.

rd and Leslis (1995b) reported mountain ployars seen on cultivated fields in 14 counties in eastern Colorado from 1992 through 1995, with most birds seen in Klows County Adult mountain ployers also occur on cultivated fields in Las Animas County withir, the boundary of the Comanche National Grassland in southeast Colorado (I. Cline, U.S. Forest Service, In litt. 1994). Breeding mountain ployers also have been reported from southeast Colorado by other researchers Chase and Loeffler 1978; Nelson 1993; R. Estella, no affiliation, in litt. 1994). Carter et al. (1998) detected mountain plovers at very low densities in 10 were most numerous in Klowa and Park Counting The Colorado Natural Veritan Program conducted mountain ployer surveys in Park County in 1994, 1995. and 1997 (Pague and Pegue 1994. Sherman et al. 1998, Hanson 1997). About 1,000 mountain ployers were estimated in Park County in 1995, and these surveys also disclosed the vulnerability of some breeding sites to ongoing and potential urbanization (Sherman et al. 1996). Additionally Service biologists have observed adults in Moffat County in July (R. Leachman,

Service, pers. comm., 1988). The Bird Atlas Parmership survey (H. Kingery, in litz., 1998) and the inventory of cultivated fields (Shackford and Leslie 1995b) mantioned above resulted in observations of breeding behavior and relative abundance, not estimates of density or productivity. Knopf (1998) reported densities of breeding birds on the Pawnee National Grassland (Weld County) as ranging between 2.0 and 4.7 btrds/square kilometer (km) between 1990 and 1994. In 1995, the Pawnee National Grassland experienced exceptionally wet, cold weather through lune and few birds were found there during the breeding season (Knopf 1998), Sherman et al. (1996) estimated

1.27 birds/square km in Park County TL/95. mates of nest success zard

productivity in Colorado are available from studies oo prairie habitat in Weld County and cultivated lands 'n courtewart Colorado. Nett success on the Pauman National Crassland in Weld Contaty was highly variable among year. Percentage of nests where at least one egg hatched varied from 28 percent (Knopf and Rupert 1996) to \$5 percent Graul 1975), Mountain ployers in Weld County fledged an estimated 1.4 young/ nest during 1968-1974 (Const 1975) and also in 1992 suggesting that breeding and the set of the set nuch in nearly 30 years (Miller and Knonf 1993), McCaffery et al. (1984) entimated a brood size of about 1.3 estimated a proof same of apout 1.3 chicks/adult in Weld County just prior to fledging. Knopf (1996) hypothesized that reported low fledging rates were attributable to drought, which affects the food supply and simultaneously increases predation pressures. The only other estimate of productivity in Colorado is from mountain plovers on cultivated fields in southeast Colorado. southwest Kansas, and northwest Oklahoma where Shackford and Leslis (1995a) estimated 34 percent of nests (1995a) estimated 34 percent of nests were successful and 47 percent of chicks that hatched also fledged. In comparison, on the Pawnee National Grassland, an estimated 50 percent of nests were successful and 47 percent of chicks that hatched also fledged (Miller and Knopf 1993). Further studies are needed to determina if average productivity and recruitment on cultivated land differs simificantly from native grassland. In Weld County 60 to 70 percent of the mountain plover abitat occurs on the Pownee National Grassland (F. Knopf, in litt. 1991). We therefore balleys that spess within Wald County will be important to any future vation efforts because mountain plovers have shown an affinity for this locate, independent studies over a 30 year period have confirmed successful rappoduction, and the extensive Federal ownership improves opportunities for habitat maintenance and protection Recent reports of the mountain ployer

being more widely distributed in Coloredo than previously known has led to some speculation that the population in Colorado is stable or improving. Pulliam (1988) expressed caution that basing a species' conservation needs on where it is most common rather than where it is most productive may lead to errors. Although additional sightings of mountain ployers in Colorado are encouraging, some of these sightings have occurred on cultivated lands. We know of no productivity estimates that

are available to compute production on these cullivated areas with production estimated from histo ... creeding sites. Montena

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Breeding habitat for mountain ployers in Montane is usually characterized by grasslands and should ands consisting commonly of peodle, and thread him promo humo group soldingh (Arrinley gerdneri), and prickly pear cactus. Most eding sites are grazed by domestic livestock or prairie dogs, and the largest number of breeding mountain ployers in Montana is found on a large complex of black-tailed prairia dog towns in Phillips and Blaine Counties (Knowles and Knowles 1998). The prairie dog tours occur on the Charles M. Russell National Wildlife Refuge, Fort Belknap Indian Reservation. 3LM. State school lands, and private lands. Mountain plovers in these two Counties number ver then 2,000 individuals, and are considered the second major breeding tion for the species (Knopf and population for the species (Knopt a Millar 1994, Knowles and Knowles 1998, S. Dinsmore, Service, pers. comm. 1998).

Mountain ployers also breed on land dministered by the BLM in Valley County (Little Beaver Creek), and on private land in Wheatland and Golden Valley Counties near the Little Belt and Big Snowy Mountains (Knowles and Knowles 1998, Surveys through 1997 now also confirm breeding mountain ployers in Big Horn. Broadwater. Carbon, Carter, Fergus, Jafferson, Hill, Madison, Musselabell, Petroleum Rosebud, Toole, Treasure, and Teton Counties (Knowles and Knowles 1996. 1998: J. Grensten, BLM, pers. comm.,

Only one mountain clover was ocated during a search of cultivated fields in 17 counties in Montana in 1995, and mountain plovers appear to use cultivated fields only for foresine and territorial display; nesting has not een observed in cultivated fields in Montana (C. Knowles, Fauna West, per-comm., 1998), Shackford and Leslie (1995b) hypothesized that more frequen disturbance of fields, a shorter growing season, and more clavey soils to ontana compared to Colorado (Knowles pers. comm., 1995) may explain the fact that fewer birds are

sighted nesting on cultivated fields. With the exception of the population in Phillips and Blaine Counties. mountain plovers total less than 500 Individuals at the other 8 locations. Therefore, Knowles and Knowles (1996 estimate fewer than 2,800 mountain ployers in Montana, Selected prairiedog towns at the Charles M. Ru ssell National Wildlife Refuga in Montana

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vielded density estimates of 6.8 and 5.8 New Mexico

biros/square km in 1991 and 1992. Missorie months from Have Mexico. respectively. The spring of 1995 was very wet in Montana and densities in this area towns reported as 1.2 block souare km in that year (Knonf 1996). The mountain ployer is classified as common in Wyoming, with breeding known or suspected in 20 of 28 blocks

of latitude/longitude. Six blocks in the southeast corner of the State make un the primary breeding range (Oakleaf et al 1982). From 1992 to 1997, nesting una confirmed on the Thunder Beels National Grassland in northeast Wyoming with nearly all nests found on black-tailed prairie dog towns (Bartoslak 1992: M. Edwards, Forest Service, In litt. 1994: T. Byer. Forest Service. In litt 1997) Based on 1997 servey data about 150 mountain ployers occur on the Grassland (T. Byer, In Itt., 1997). Recently, Thunder Basin National Grassland acoutred an adjecent narcel privately-owned rangeland, which together with existing property forms a management unit that has been identified as the next potential site for black-footed ferret reintroduction, In addition, the current Forest Management Plan for Thunder Basin is being revised and the new plan will identify increased acreage to be managed specifically for prairia wildlife, such as prairie dogs and mountain plovers (M. Lockhart, U. S. Fish and Wildlife Service, pers. comm. 1000)

From 1979 to 1992, pestine was confirmed at the Antelope Coal Mine in the southern Powder River Basin Reported breeding densities of 0.9 to 2.4 birds/spuare km are lower than those reported for Wyoming prior to 1965 and at other breeding sites in Montana and Colorado (Oeiklaus 1989, Parrish 1988, M. Edwards, in litt., 1994), Mountain plovers throughout the southern Powder River Basin are generally thought to be widely scattered at low densities, with a few areas of local concentrations (Oelklaus 1989). Knopf (in litt., 1991) und mountain ployers on the Laramie Plains, on the Chapman Bench north of Cody, and in the vicinity of Shirley Basin. One nest and some adults were located on cultivated lands to I scamla County (Shackford and Leslie 1995b). Mountain plovers also breed in shrubsteppe habitat in southwest Wyoming (Oakleaf et al. 1982). Recent survey efforts in Wyoming hava not been as intensiva as those in Montana or Colorado. In 1991. Knopf (in litt. 1991) estimated fewer than 1 500 mountain plovers nesting in Wyoming.

Indiana that mountry i contours numbered from several individuals (1968 to 1977 data) to 150 in a single flock in fuly 1937 (Hubbard 1978), Saeer (1996) conducted mountain ployer surveys in 1995 and found 152 breeding adults and 28 inventios at 35 sites in 11 counties north of 34 degrees latitude. His search was primarily confined to areas north of 34 degrees latitude. lowever, one adult was located in Hidaleo County during 4 days of survey effort south of 34 degrees, suggesting that occasional breeding may occur in the southern parts of the State (Sager 1996). Migrating mountain plovers were also sighted in Valencia. Colfax, Union. and Torrance Counties, with most of these seen on turf farms at Moriarry and Los Lunas (Sager 1996). Tha recent surveys in New Mexico Imply that additional searching may yield more mountain plovars (S. Williams III, New Mexico Department of Game and Fish. In litt. 1997).

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Few breeding mountain ployers were found in Oklahoma nativa shorterasa prairie and prairie dog towns in 1986. The few plovers found, combined with the discovery of one mountain plover nest on a maize field, stimulated additional surveys of cultivated fields in Oklahoma (Shackford 1991). In Cimaron County in the panhandle of Oklahoma Shackford (1991) found that during the nesting seasons of 1985-1990, 60 percent of comman ployers observed were in native grassland and 40 percent were in cultivated fields. Ten of the 15 hirds obcer of in nativa grassians, were on pr irie-dog towns. Annual counts of mountain plovers on cultivated fields from 1990 through 1995 have ranged from 3 to 428 (Shackford and Leslia 1995b).

Other Breeding Areas

In Utah, the only site known to have breeding mountain players is in Duchesna County, south of Myton. in the Uintah Basin. Counts of breeding mountain plovers in this area from 1992 through 1997 have ranged from 7 to 29, and broods have been found in each year except 1992 (T. Dabbs, BLM, In litr., 1997), Counts of breeding mountain ways on cultivated lands in western Kansas from 1992 through 1995 have ranged from 52 (5 counties searched) to 114 (4 counties searched) (Shackford and Leslia (1995b). Surveys of cultivated fields and rangelands within the boundary of the Cimarron National Crassiand in Kansas also have been

conducted. Counts on the Grassland in Mich 1991, 1996, and 1997 rapped from 1 to 13. and most of the sightings were on nlowed fields (J. Chynoweth, Forest Service in litr 1007) Three pairs of mountain ployers were reported near Fort Davis, Texas, in 1992 M (K Brian, Davis Mountain State Pack pers. comm., 19921, but more recent reding in Texas cannot be confirmed due to lack of permission to access private land (P. Homer, Texas Parks and ge Wildlife Department, In litt., 1997), An adult incubation three ener une found near Springerville, Apache County, Arizona, in May 1996 (C. Cordery, U.S. in Fish and Wildlife Service pers comm Ħ 1998). A nesting mountain plover was found in western Nebraska in 1990 (F. ish Knopf, in litt, 1990), and two mountain 200 player nests were found in a failow field in the same vicinity in 1997 (W. Johman Service in litt 1997) Seventeen mountain plovers were Wildlife counted on 10 cultivated fields in western Nebraska in 1992 and 1995 (Shackford and Lettle 1995h) The most recent nesting record in Canada is one nest in southeestern Alberta in 1990 (C. c Wershier, Sweetsrass Consultants Limited, pers. comm., 1992). Mountain plover breeding behavior was observed in 1998 in Nuevo Leon, Mexico, but ATC additional surveys are needed to confirm nests and broods (F. Knoof, In Attachmen litt., 1998). The Service is not aware of any breeding records from other locations. Winter Distribution

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Historically, mountain ployers have been observed during the winter in California, Arizona, Texas, and Nevada the California coastal islands of San Clemente Island, Santa Rosa Island; any the Farallon Islands (Strecker 1912) Swarth 1914: Alcorn 1948: Jurek 1973 ensen and Ferguson 1984: Garrett and Dunn 1951; B. Deuel, American Birds Editor, in litt. 1992). In Mexico. wintering mountain plovers have been sighted in Baja, California, as well as north-central and northeastern Mexico specifically in Chihuahua, Coahuila, Sonora, Nuevo Leon, and San Luis Potosi (Russell and Lamm 1978; A. Garza de Leon, The Bird Galley, in litt. 1990; L. Stenzel. Point Reyes Bird Observatory, In litt., 1992: R. Estelle pers. comm., 1998). Currently, the majority of mountain plovers appear to winter in California, with fewer reported from Texas, Arizona, and

The only published scientific study mountain ployers on their wintering habitat documented movement parters habitat preferences, and winter surviv rates in the San Joaquin Valley and

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Carrizo Plein Natural Area of California comm., 1992). In Texas. : p to 130 Weens and Russer 10051 Que to the lack of published information on wintering birds, we examined Christmas Bird Count data, notes of California sightings compiled from American Birds, National Wildlife Refuse records. BLM surveys and other information (1. Lowe, Cornell Laboratory of Ornithology, in litt., 1989; B. Deuel, in Net 1002

Californie

In Celifornia, mountain ployers are most fraquently reported and found in the greatest numbers in two general locations-(1) in the Central Velles outh of Sacramento and west of U.S Highway 99, and (2) the Imperial Valley in southern California. Throughout these areas, sightings occur on aericultural fields and noncultivated sites: noncultivated sites are preferred habitat (Knopf and Rupert 1995). Within the Central Valley, flocks of up to 1,100 birds have been seen recently in Tulare County (Knopf and Rupert 1995). The Cerrizo Plain Natural Area in San Luis Obtano County also is recognized as an important wintering site, with wintering block reliably reported from the west side of the Carrizo Plain Netural Area since 1971 (S. Fitton, In litt., 1992), Tha ecramento Valley portion of the Central Valley also provides wintering hebitat for flocks of mountain plovers within Solano and Yolo Counti During the 1998 census, 230 and 187 mountain plovers were observed within each of these counties, respectively (K. Hunting, California Department of Fish and Game. In litt. 1998). About 2.000 mountain plovers were

counted on agricultural fields in the Imperial Valley in 1994 (B. Barnes, National Audubon Society, In litt. 1994). At other locations in southern California, hirds have been seen at Harper Dry Lake, Antelope Valley, San lactno Lake Wildlife Area, and the Tiluana River Valley (K. Garrett, no affiliation, pers. comm., 1989; G. Cardiff, no affiliation. pers. comm., 1992 T. Paulak, California Departmen of Fish and Gama, pers. comm., 1992; E. Copper, unaffiliated, In litt. 1992). Mountain ployers are considered extirpated (extinct) from Orange County (B, Harper, U.S. Fish and Wildlife Service. In litt., 1990).

Arizona, Texas, Nevada and Mexico

Wintering mountain ployers also are reported from other areas, but in much wer numbers than are reported from California, From 1983 to 1991, e total of 30 to 180 mountain plovers were ported from southeastern Arizona (J. Winseman Aurishan Society pers

Gradelupe, San Patricto, and Williamson Counties (G. Lasley Regional Editor American Birds, pers. comm 1997]. Mountain plovers also have been sighted throughout the year In Texas in Val Verue. : ueces. Kleburg. Arausas, Tom Green, Coucho, and Schleicher Counties (P. Liomer. In litt. 1997), end at Leguna Atascosa National Wildlife Refuge (L. Laack, U.S. Fish and Wildlife Sarvice, In litt., 1992). In Nevada, several mountain plovers were collected to the Laborum Valley in 1940 with a few observed there in the 1990's (Alcorn 1946: F. Knoof, pers. comm., 1995). In January 1992. 148 mountain plovers were counted at the north end of Laguna Figueron. Baja California, Mexico (L. Stenzel. In litt. 1992), About 150 mountain plovers were seen on a prairie dog town in San I us Porost Mexico, in January 1998 (R.

Estelle, pers. comm., 1998). Total Mountain Plover Population Abunciance and Trend Estimates

Historically, breeding mountain lovers were reported as locally rare to indant, and widely distributed in the Great Plains region from Canada south to Texas (Cours 1878, Knight 1902, AcCafferty 1930. Bailey and Neidrach 1985). On wintering grounds in California, as many as 10,000 mountain lovers were repetedly counted in the San loamin Valley during the 1960's (I. Engler, U.S. Fish and Wildlife Service. In litt. 1992). In January 1994. 3.348 mountain ployers were counted during e simultaneous survey of 17 sites throughout California (B. Barnes, in Int. 100.41 A stmiler coordinated survey in California in January 1998 counted 2.179 (Hunting, In lint, 1996). We present the above estimates of

mountain ployer relative density and abundance rangewide and within each state to give the reader an indication of the variability in information reported in published literature and other references. The estimates of abundance provided for each State or area are usually from different researchers. from different times, and using different techniques, Therefore, the estimates should not be considered comparable to ona another, nor necessarily edditive. Knopf (1996b) estimated the total 1995 North American population to be herween \$,000 and 10,000 birds. He arrived at this estimate beginning with e one day winter count of 3.348 nountain plovers at all known historical sites in Californie, assumi that at least one-half of all mountain ployers in California were missed by hat count, and adding an astimated

1.000-3.000 birds that winter in Texas

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~ and Mexim. Knoof (1994) recorded that between 1966 and 1991, continental populations of the mountain plover declined an estimated 53 percent. Breeding Bird Survey trend analysis committee for the 7 neriod 1966 through 1996 yields an estimated annual rate of decline of 2.7 percent (P = 0.02, 95 percent confidence 2 Intervals = 4.7 = 0.6: Sourcet al 1997 Knopf and Rupert (In press) hypothesized that reduced productivity as a result of tillage on cultivated lands used for nesting may explain the annual 20 rate of decline of this species. The mountain ployer's decline is considered for conservation concern (Knopf Ist 1994 1996bl.

Previous Federal Action

On December 30, 1982, we designa the mountain ployer as a category 2 candidate energies, meaning that more Information was necessary to determine whether the species status is decilating. able, or improving (47 FR 58458). In 1990, we prepared a status report on the mountain plover suggesting that Federal nen and Osmundson 1990, We elevated the mountain ployer to a category 1 candidate species in the November 15, 1994 Antmal Candida Notice of Review (59 FR 56982). At that time, category 1 candidate species were defined as those species for which we had sufficient information on biological vulnerability and threats to suppose issuance of a proposed rule to list. In 1998, we redefined candidate species and eliminated category 2 and 3 candidate designetions (81 FR 64481). Candidate species were defined using the old category i definition. The mountain plover retained its candidate species designation as reported in the stember 10 1007 Review of Plant and Animal Taxa (62 FR 49398). On Jul 7, 1997, we received a petition to list th mountain ployer as threasaned from sper Cariton of the Blodiversity Lenal Foundation. The Service responded by notifying the petitioners that petitions for candidate species are considered second petitions, because candidate species are species for which we have nody decided that listing may be warranted. Therefore, no 90-day findla was required for Blodiversity Legal Foundation's petition.

mmary of Fectors Affecting the ecles

Section 4 of the Endangered Specie: Act (Act) of 1973, as amended (18 U.S.C. 1531 et seq.) and regulations (5 CFR part 424) promulgated to implement the listing provisions of th

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Act set forth the procedures for adding species to the Federal lists. A species may be determined to be endansered or threatened due to one or more of the five factors described in section 4(a)(i). These fectors and their application to the mountain plover (Charadrius montenus) are as follows:

A The Present or Threatened A. The Fresent of Threatenet Curtailment of its Habitat or Range.

As discussed below, mountain ployer habitat is threatened by the conversion of grasslands to croplands and urban uses, domestic livestock menagement and other land uses (e.g., prairie dog control mineral devalopment) throughout mountain plover breeding and wintering ranon.

Historical Conversion of Grassland in Breeding Range

Conversion of grassland to cropland within the breeding range of the mountain plover has been extensive. with about 32 percent of the prasslands In the Great Plains now converted fl avenck 1987, Knopf and Rupert in need Annoximetely 20 percent of comine's and 80 percent of Texas shortgrass preirie has been lost (comparable data not available for each State, Semson and Knopf 1994, Knopf and Samson 1997). The demand for agricultural development at the turn of century stimulated grassland conversion to croplands at both breeding and wintering locales. Conversions continued in later years to meet demands during World Wars I and II. In the 1940s some additional land was ployed to take advantage of fevorable pioned to the and high wheat prices after World War II (Lavcock 1987). Under the Soul Bank Act of 1956. participating farms withdrew cropland from production for 3-10 years. At the peak of the program in 1961, 14.1 million acres (ac) in the Great Plains were planted to grasses. Laycock (1987) suggests that observations show that almost all of this area was plowed again beginning in the early 1970s, along with previously unbroken grassland. Thus, the Soil Bank Program of 1956 was successful as e wildlife habitat conservation measure only in the short term. Later, during the Russian wheat sale of 1972 and authorization and implementation of Federal water projects in California's Cantral Valley conversions of grassland continued (see Moore et al. 1990, Williams 1992). During the 1970s and 1960s, an estimated 572,000 ac (228,800 ha) and 15 000 ac (6 000 ha) of previously unbroken grassland were plowed in Colorado and Kansas (Laycock 1987).

Simultaneously, domestic livestock replaced native suggisters to the unimary grazer at both breeding and wintering locations, and livestock management practices that encouraged vegetetive uniformity were adopted (see Knopf 1996c and Knonf and Rupert in press Current Conversion of Grassland In

Breedins Ranse

We investigated recent loss of native rengeland within the breeding range of the mountain plover using the National Resources Inventory (NRI) of the U.S. Department of Agriculture Natural Resources Conservation Service (NRCS) The NRI is a comprehensive database of natural resource information on nonfederal lands of the United States that focuses on soll, water, and related resources. Although the survey is now repeated every fiva years, the earliest NRI data is available from 1982 (U.S. Department of Agriculture Soil Conservation Service (994), The 1992 NRI Summary Report provided estimates of change in rangeland acreage, 1982-1992, for each state. Reneeland was defined as a land cover use category that includes land on which the climax or potential plant cover is composed principally of native grasses, grass-like plants, forbs, or shrubs suitable for grazing, and introduced forage species that are managed like rangeland. We believe that this cover type would most likely represent the vegotative elements

required by breeding mountain plovers. Colorado, Montana, and Wyomins are the three States with the majority of breeding mountain ployers; some breed In Kansas, Nebraska, and Oklahoma. Using areas inventoried by Knowles and Knowles (1295) and Shackford and Lesite (19955), we comoared the change in rangeland that has occurred in their inventory areas between 1982 and 1992. With the exception of Phillips and Blaine counties, Knowles and Knowles (1998) report more mountain plovers rom Broadwater, Coldan Valle lefferson Madison Valley, and wheatland counties than other locations in Montana. The counties inventoried by Shackford and Lesite (1995b) closely describe the area commonly reported as the mountain ployer breeding range in Colorado, Kansas, Nebraska, Oklaboma, and Wyoming. We believe the 30 counties in the six states which we selected for review of NRI data are a good representation of areas either currently or historically occupied by mountain plovers.

Data were not available for all of the selected Montana counties. From 1982 to 1992, the amount of rangeland in the selected counties of Wyoming decreased

25,300 ac. In Colorado 466,200 ac. In Nebraska, 18 400 ac. in Kansas, 30,700 Michae ac, and in Oklahomu 71,000 acres. These decreases occurred because of conversion to a variety of landuses. including cropland, onveloped land. and other rural lands ill S Department × of Amiculture Soil C internation Service 10041 There data as same that the conversion of grasslanus remains a significant threat in the species. Given 2 ğ the fact that mountain plovers are endemic to grasslands, we believe that a similar proportion of mountain ployer C habitat was likely lost during that time in period. In fact, the conversion of evesslands to cronited is reported by Fish many authors as a cause for the decline of mountain ployers and their habitat le.e., Graul and Webster 1976, Fauna and West 1991, Knopf and Rupert in press). Mountain plovers are known to breed on private grasslands near the Little Belt and Big Snowy mountains in Montana. Wildlife on private lands within the boundary of the Pawnee National Grassland in Colorado, and in other areas that could be converted to croplands (Knowles and Knowles 1993, Knopf and Rupert In press). Three mountain ployer nest sites Service. on grassiands in central Montana were converted to cropland in 1995 under a arm plan approved by the Natural Resources Conservation Service, and grassland conversion is occurring at Attach other locations in Montana (Knowles and Knowles 1998, 1998).

Cultivated Areas in Breeding Range as Potential Population Sinks

A direct loss of habitat is not the only lent effect of grassland conversion in the eeding range. Conversion may not ы only destroy existing mountain ployer ding sites (set i.m. /les and ģ Knowles 1996b, 1915) and eliminate th opportunity to manage grasslands to provide future nesting sites (e.g. through burning and grazing), it also may create habitate that attract breedlr mountain ployers which would then b exposed to the tilling of cultivated fiel to control weeds. This tilling can destroy mountain plover nests, eggs, and chicks (Shackford and Leslie 1995a,b; Knopf 1996b; Knopf and Rumert In press)

In the last 25 years, Great Plains farms have become larger and new cro have become economically feasible. Many farmers now plant extensive art to sunflowers and millet, as well as winter and spring wheat, Fields may remain failow until early May, after most mountain plovers have started nesting. Many nests are then destroye by farm equipment when the fields at planted in May, Mountain ployers mi renest on these fields, but then likely

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too tall to allow ployers to scan their surroundings for predators (Knopf 1998b). In other instances, failow fields may not be planted, but may be tilled periodically to control weeds

During the nesting season of 1995. Checkford and Lette (1995b) case had 999 km around cultivated fields in 68 counties of eight States. They observed 54 mountain plovers on e total of 29 militivated fields in 13 counties in five of the eight States: Colorsdo, Montane, Nebraska Oklahoma, and Wyoming. The majority of plovers observed on cultivated fields were in the southern portion of the range (53 of 54 birds): Larsmie County, Wyoming (19 birds), southwestern Nebraska (13), and eastern Colorado (17). Shackford and Leslie (1995b) concluded that fewer birds are found nesting in cultivated fields in northern latitudes because upland crops are sparse in Montana and Wyoming. there is a shorter growing season, and spring whest planted in northern larindes is disturbed more frequently than the winter wheat planted in the south. The short intervals between disturbances for spring wheat would not normally allow enough time for

weeding, nesting, and young rearing. In 1993 and 1994, 48 percent of nests actual on cultivated fields in Colorado. Oklahome, and Kanses were destroyed by tilling (Shackford and Leslie 1995e). Although the long-term effect of tilling on mountein plover productivity and abundance is not known, cultivated lands may represent a reproductive "sink" (Knopf 1996b: Knopf and Rupert in press), Pulliam (1988) described e reproductive sink as habitat where reproduction of a species is less than mortality, so that immigration from more productive habitats (i.e., "sources") is needed to maintain the species' presence at the sink. Sinks are habitats where breeding efforts are misrepresented as recruitment into the lation, but where the mortality actually causes e population declina. We concur with Knopf and Rupert (in press) that the source-sink dynamics (as described by Pulliam (1988)) are likely operating on the grassland-cultivated sites used by mountain plovers in Colorado, Kansas, and Oklahoma.

Many grasslands are not suitable ng habitat, and therefore, are not used by mountain plovers. However. conversion of these grasslands also can he considered detrimental because such conversion may create locally acceptable habitat (Knopf and Rupert In press) on which mountain plovers are then exposed to tilling (i.e., creation of sink habitat, see above). Consequently, grassland conversion may be considered

abandon nests as the grain crop becomes a threat to mountain ploy or conservation whether or of the erassiands are presently - simble breeding habitar, particularly when conversions are proposed within the southern portion of the bird's breeding

> Grasslands in the bre-ling range also are being converted to venue uses Netionwide, between 1982 and 1992. e 14 million ac (5.600,000 ha) increase in developed land came in part from conversion of 2 million ac of rangeland (U.S. Department of Agriculture Soil Conservation Service 1994). In Park County, Colorado, which may support shout 1.000 mountain ployers, the number of residential building permits has tripled between 1991 and 1997 In arout of the County known to have breeding habitat (Hanson 1997: G. Nichols, Park County, Colorado. In litt. 10081

Miterarical Conversion of Grassland In Winter Range

In the early 1900s, a great number of mountain plovers were reported on wintering areas in California on both ords and asticultural lands Grinell et al. 1918). Prior to extensive human development, grasslands occupied about \$,900,000 hectares (ha) (22 million ac) throughout Californi with about 20 percent occurring in the San Josquin Valley (Dasmann 1965 and Burcham 1982 cited in Moore et al. 1990. During agricultural developmen extensive conversion of natural habitats occurred and proportionately more erasslands were converted than any other cover type (Ewing et al. 1988. Moore et al. 1990). The amount and variaty of mountain plover habitat has been stent? antly rate to ed throughout the Cantral Valley and in southern California. To more fully evaluate the degree of mountain plover habitat conversion that has occurred, we reviewed the habitat inventories completed for other declining torrestrial species in the San Joaquin Valley. While tha San Joaquin Valley encompasses only the southern portion of the Central Valley, we believe the trend there is representative of wintering habitat jegradation elsewhere. Crassiands in the San Joanuta Velley

have been nearly extirpated, with less than 60,700 ha (150,000 ac) in the San loaguin Vailey floor remaining unaffected by cultivation or urbanization (Service 1997). Consequently, habitats preferred by mountain ployers have been reduced to less than 4 percent of their historical abundance (Knopf and Rupert 1995, Anderson et al. (991). Research in the San Joaquin Valley documents that

Valley tink scrub and grasslands over any of the more contains coltivated land Anderson et al. 1991 Knonf and Ropert 1995). However, the sirk scrub and grassiands occupy no more than about 26 400 ha (66 000 uc) of the San loapoint ₹ Valley (Anderson et al. 1991). Moumain ployers in the San loaguth Valley are tenencient na these core areas of Long uncultivated lands for early winter survival and further loss of these areas would be detrimental to the species (Knopf and Rupert 1995), Apparently C due to the scarcity of uncultivated wintering habitat, mountain ployers use ò croplands created by annual cultivation Fish as alternate foraging areas (Knopf and Rupert 1995). Such use may rive the appearance that conversion to cropland is benign. However, mountain ployers and may not benefit in the long term because the cultivated lands are commonly treated with pesticides and may becom urbanized (American Farmland Trust s Vildlife 1969 Moore et al. 1990, Knopf 1996b). Most of the remaining undeveloped lands in the San Joaquin Valley are primarily in the foothills of the Valley. Se and are lands that have less potential for agricultural production (Moore et al. 1990 Service 19971 While the Carrizo Plain Natural Area contiguous to the west side of the Valley is recognized as e regular wintering area, only about 10 percent of its 102,792 ha (254.000 ac) ъ has vegetation and topography suitable for mountain ployers (U.S. BLM 1995, S. Fitton in litt. 1992).

wintering mountain ployers prefer

Effects of Range Management on Mountain Ployer Habitat

Historically, mountain plover habitat at both breeding and wintering sites was a byproduct of the normadic behavior of bison, elk, and pronghorn, and the fossorial (digging) behavior of numerous rodense. Today prairie dogs and kangaroo rat numbers have been uced on e significant portion of their former range, and the grazing effects of the dominant berbiyors (domestic livestocid are usually closely manage by rotating the livestock within fenced pasture allotments. Current range management practices for domestic stock, together with extensive eradication of prairie does and other burrowine rodents, has adversely affected mountain plover habitat. as

Some current domestic livestock grazing management emphasizes a uniform grass cover to minimize grassland and soil disturbance (Knopf and Rupert in press), whereas the landscape created by the native herbivores was a mosaic of grasses forhs, and have eround that could

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hance frequently in time and location. The shift to livesto k grazing strategies that favor uniform cover is believed to be partly responsible for the decline of mountain plovers in Oklahoma and Canada (Flowers 1985, Wershier 1989). Mountain ployers are no longer reported from the Lewis Ranch in central Montana since elimination of grazing there in 1993 (Knowles and Knowles (998), Mountain ployers on the Pawnee National Grassland are closely associated with heavily-prazed sites. Therefore, in order to prevent deserioration of existing mountain plover breeding habitat, the Forest Service has deferred implementation of new grazing management plans that (Forest Service 1994b). However, similar attention to the vegetative requirements of mountain plovers is not in place throughout their breeding range. The decline in the cattle and sheep industry has caused additional rangeland to be converted to cropland, which is believed to have eliminated some of the mountain plover habitat in Montana Feura west 1991. Knowles and Knowles (998).

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Range management projects to improve forage conditions for domestic livestock are conducted on public and private lands throughout the range of the mountain piover. Examples of these projects include "pitting" to increase moisture retention in the soil. introduction of exotic grass species such as crested wheatgrass, watershed improvement projects, and fire 1991, Knowles and Knowles 1993). These activities enhance the development of taller vegetation and have eliminated suitable mountain lover nesting habitats in Montana and Colorado (Graul and Webster 1978. Knowles and Knowles (1993).

Effects of the Decline of Burrowing Mammals on Mountain Plover Habitat

The decline of the mountain ployer is pertially due to the decline of prairie dogs in plover breeding range and the decline of small burrowing mammals in over winter range (Knowles et al. 1952; Fitton, In litt., 1992, Knopf 1994). Breeding Range

Mountain ployers occur within prairie iog towns in Colorado. Montana. ine, and Oklahoma (Knowles et al. 1982: Flowers 1985: Shackford 1991: Godbey 1992: Nelson 1993: Edwards, In litt., 1994; T. Byer, in litt., 1997; S. Dinsmore, pers, comm., 1998). Active prairie dog towns in Montana have shorter vegetation and more abundant reduction and fragmentation, and mountain plover food, and therefore are sylvadic plague (Marsh 1984, Whicker

better foraging sites than adjacent sites without prairie dogs (Olsen (965). In Phillins County, Montana, Lonuntain plovers were found to selectively use only those active prairie doe towns that also were grazed by cattle: mountain plovers were not seen on inactive or nerazed prairie dog towns (Knowles et at 19821 Most of the mountain ployer pests found on survey transects in Phillips County during the past 6 years were located on pratrie dog towns (S. Diresmore, pers. comm., 1998). The largest population of mountain plovers in Montana occurs on prairie dos colonies, end between 1992 and 1996. prairie dog occupation of these colonies was reduced by as much as 80 percent as e result of sylvatic plague (). Grensten, pers. comm., 1998). Mountair plover numbers along prairie dog transact routes within the area affected hy niegue declined from 80 in 1991 to 19 in 1997 but increased to 27 in 1998 following some recovery of the prairie lation /S Diasmore pert. doe pop comm. 1996). We believe that the best information available indicates that mountain plovers in Phillips County are dependent on the activities of prairie does. Because mountain plovers breeding in Montana represent a significant part of the species tota ulation, eradication of prairie dogs in Montana would not only be detrimental to local conservation of lovers (Knowles and Knowles 1998). but also could impact their viability

range-wide. In Wyoming, prairie dogs on the Thunder Basin National Grassland effectively maintain the vegetative characteristics required by mountain ployers. To maintain these characteristics in the phsence of prairie dogs, more intensive grazing by domestic livestock or native ungulates. or burning, would have to be co (T. Byer, pers. comm., 1995). The Importance of prairia does to mountain plover habitat on the Pawnee National recognized following e significant tion in habitat caused by record rainfall there in 1995. Prairie dogs on the Grassland have been effective in maintaining the vegetative structure suitable for nesting mountain plovers while the vegetation at similar sites without prairie dogs is now too tall or dense to be suitable habitst for

mountain plovers. Prairie dog ebundance and distribution has been reduced by up to 98 percent across the species range due to concerted efforts simed at eradication of prstrie dogs, extensive habitat

and Detling 1993, Miller et al. 1994, W. Gill Service in litt 129.3

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Prairie dog control + stainers to Accut on private and public lange incuchout the mountain plover's breeding range. Prairie dog conservation efforts now being implemented at black-footed ferre recovery sites in southeastern Wyomine Z /56 FR 41473) and north-central dontane (59 FR 42696) will prevent prairie doe control from threatening the success of the ferret recovery elforts Mountain ployers et these sites will be incidentally protected by these efforts. but similar strategies are not in place throughout the species range. Outbreak of sylvatic plague continue to occur, and prevent or minimize the negative effect of plague on prairie dos populations. rairie dog towns also are threatened by land use conversion (Knowles and Knowles 1993). Further loss of prairie doe rowns within the current breeding range of the mountain plover would be detrimental to ployer conservation Conversity the conservation of the ountain plover can be enhanced by lite implementing strategies to increase the distribution and abundance of prairie

does on breeding habitat. Winterine Range

Some wintering hebitat in California continues to be maintained in suitable conditions by the activities of clant kenearon rsts and Californie emun squirrels (Knopf and Rupert 1995). We estimate that the federally listed giant langaroo rat occupies less than about 2 percent of its former range due primarily to conversion of spassland habitat to sericulture and urbanization and secondarily to other incidental human activities and council of California ground squircels (32 FR 283; Further loss of signt kanegroo rat colonies within the current winter ran would be detrimental to ployer conservation. Conversely, the conservation of the mountain plover c. be enhanced by implementing strategi to increase the distribution and abundance of giant kangaroo rats on wintering habitass.

Oil, Gas, and Mineral Development In Mountain Ployer Breeding Habitat

Oti and gas leasing and developmen commonly occur throughout the breeding range of the mountain ploves Ongoing development of natural ass resources in southwest Wyoming now exceeds the rate of development projected 3 years ago, and the volume natural era suspected to occur could make the rate of development the highest in the Nation (R. Amidon, BL) pers. comm., 1998). Oil and gas

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development requires construction of individual well pads access made travel corridors, end pupelines (Brockway 1992), Roads present a direct hazard for a variety of reasons. Mountain ployers nest on nearly level ground (often near roads), eduits and chicks often feed on or neer roads, and conde may be used as result considers by mountain ployers, all of which make plovers susceptible to being killed by vehicles (McCafferty 1930, Laun 1957, Godbey 1992, Knowles and Knowles 1996). Chicks and adults are vulnerable in stress caused by human disturbance. and chicks require shading by adults to avoid heet (Graul 1975). Because eduits mer shandon chicks during discussion displays (Graul 1975), eny human activity that elicits distraction displays is likely to increase the vulnerability of chicks to stress. Thus, development o oli and gas resources could adversaly affect mountain ployer babitat or cause the death of individuals (Brockway 10021

Mineral resources found within the range of the mountain plover include coal, uranium-vanadium, bentonite, end resources occur on public lands and are commonly mined using surface mining techniques. Up to 25 percent of the mountain ployer habitat et the Antelope Coal Mine in Converse County, Wyoming, has been affected by minin disturbance in the past (K. Edwards, In litt., 1994), but mountain plover sightings at the coal mine have remained fairly stable in recent years and the habitat impacts may not have affected population levels (B. Postovit. Powder River Esgle Surveys, pers. comm., 1998). However, other surface cosl mining is proposed in Wyoming that may impact mountain ployers or their hebitat (M. lennings, U.S. Fish and Wildlife Service. In litt., 1998).

R. Overutilization for Commercial. Recreptional, Scientific Educational Purposes

Prior to the passage of the Migratory Bird Tresty Act in 1916, mountain plovers were commercially hunted for mountain ployers are overutilized for any purpose.

C Directo or Prediction

Disease-related factors are not known to be a problem to the species. Mountain ployers are most vulnerable to terrestriel and avian predetors as eggs and chicks. and are only rarely killed as edults. Potential evian and terrestrial predators include the prairie felcon (Falco mexicanus). loggerheed shrike (Lanfus hudowic isous), swift fox (Vuloes velox).

pround sources (Spermonhilles so.) and a write (Cault largers) "Traul 1975] Next oredation at the Caunce Cational Grassland has ranged between 15 to 74 percent from 1969 to 1994 (Grant 1975. Miller and Knopf 1993, Knopf and Runnert 1996). A high rive of nest predation by swift fox at the Parene National Grassland in 1993 and 1994 may have been due to temporarily reduced over resources, and is not hallowed to be a factor in the long-term decline of the mountain player population (Knopf and Rupert 1996).

D. The Ine depuncy of Existing Regulatory Mechanisms

Protecting the mountain ployer and its habitat is complicated because its breeding and wintering hebitats occur over a wide geographic area, which Includes priveta and public land, and numerous State and Federal authorities Federal laws that provide protection of mountain plovers include the Federal Land Policy and Management Act. Federal Onshore Oil and Gas Leastra Reform Act. Endangered Species Act Fish and Wildlife Coordination Act. aderal Agriculture Improvement and Reform Act of 1996, and Migratory Bird Treaty Act. To various degrees, these laws address Federal candidate species. migratory birds. or declining species when evaluating potential effects of federally authorized, funded, or permitted actions. Further, some Federal asencies have adopted policies requiring consideration of declining spectes during project review, to ensure that Federal actions do not cause a trend toward Federal listing, However, the effectiveness of these existing Federal regulations and policits are highly variable and may not "? sufficient to more the species' section throughout

The Forest Service has adouted an interim mountain ployer management strategy for oil and gas activities on the Pewnee Nettonal Grassland because of the potential impact these activities id have on the species (U.S. Forest Service 1994). The BLM has edopted the same strategy for oil and gas activities under its administration at the same location (U.S. BLM 1994). Sostial buffers to protect mountain plovers have also been a to been adopted on Forest Service and and Litzh (M. Bhil, Forest Service, in litt., 1997; T. Byer, in litt., 1997; T. Debbs. In litt. 1997). However, many of the mineral resources occur es solit estate ownership, where the surface is owned by the Federal government but the subsurfece minerals are owned by private parties. Strategies adopted by Federal egencies to protect mountain

players are not as effective on spill ations lands because the Enter-Gavernment has lets regulatory authority over private surface activities. "checkerboard" pastern of alternating private and public and (Federal and State sections) also reduces the effectiveness of Federal ployer contemportion materia Buor Land exchange or disposal by Federal agencies may also involve mountain plover hebitat. For example, land exchanges on the Thunder Basin

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National Crassland in Wammins have ò multiplied in transfer of known perting habitat to private ownership, as well as transfer of nesting habitat on private Ħ IST land to Forest Service ownership (T. Byer, pers, comm., 1998), In Colorado. and the BLM has identified numerous parcels of public land that are available for exchange or disposal to the public. \$ including parcels in Park County known to be mountain plover habitat (L. Deike. BLM, in litt., 1997). Disposal of these /ildlife lands requires review by the BLM, yet the candidate status of the mountain ployer may not be effective as a Se mechanism to retain all breeding sites in public ownership (E. Brekke, BLM, pers. mm. 1998). While federal ownership of mountain plover habitat is not necessary to insure conservation Att reteining known behitet to faderal ownership reduces the burden of

servation on private landowner The mountain plover is now classified endangered in Canada, threatened in Nebraska, e "species of special interest or concern" in Montana, Oklahoma, and California, and designated e "species in need of conservation" in Kenne (Wershier and Weilts 1966; Flath 1964; E. Hunt. California 2. vonment of Fish and Camp to 10t. 1990: Nebraska Came and Parks Commission 1992: Oklahoma Department of Wildlife Conservation 1992: Kansas Department of Wildlife and Parks 1992). The mountain ployer is currently believed to be extirpated rom North Dakota and South Dakota Fames and Stewart 1982). Only Californta and Nebraska have lews requiring evaluation of State-listed ecies through a consultation process. ates other than those identified above have not given the mountain plover any special designation. In 1995, Colorado, Kansas, Montaha, Nebraska, New Mexico. Oklahoma, and Wyoming designated the mountain plover as a "species of management concern" under the Partners in Flight Program (Service. in litz, 1995). It is not known if the bird has any official designation in Mexico. State listing can encourage State

agencies to use existing euthorities to achieve recovery, stimulate research.

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and allow redirection of priorities within State patural resource departments However without measures to protect the species' hebitar. such State iews are generally inadequate to ensure conservation of the species. E. Other Mexical or Memorie Exctore Affecting its Continued Existence

Natural Factors Affecting Nexting

Mountain player nexts are often found grouped in locelized ereas, which ists a loose colonialism during the breeding season (Graul 1975), Results of abullar conducted in Colorado and Montana suggest a high degree of site fidelity in mountain plovers, with both males and females returning to nest within several hundred meters of the previous year's pest site, and banded chicks returning as adults the following year to nest at their natal areas (Graul 1973, Knoof (996b).

The mountain ployer's narrow range of babitat requirements combined with its site fidelity increases its industribility to impacts at traditional breeding locales. Although mountain niovers or their habitat may be effected localized climetic events (Graul 1973 1975) we do not believe such events have contributed to the historic decime of the species. However, a declining mountain plover population combined with high site fidelity characteristics may increase their vulnerability to such events in the future. For example, the Pawne National Grassland received 30 cm (12 in) of rainfall in one month during the spring of 1995 (Bell, in litt, 1997) which caused vegetation growth in 1995 that averaged 30 cm (12 in) in height. thereby eliminating mountain ploter nest site characteristics. Independent surveys determined that mountain ployer ebundance on the Pawner National Grassland has declined by as much as 90 percent compared to the pre-1995 surveys (Bail, in litt. 1997; F. Knopf, in litt., 1997). In 1998, mountain plovers were not observed at their traditional nesting sites on the Pewnee National Grassland, suggesting that the deteriorated habitat conditions have caused mountain ployers to ehendon much of this area (F. Knopf. in litt., 1998). Similarly, researchers witnessed the destruction of all nests and chicks in a given area during a single flash od event in 1997 in central Montana C. Knowles, pers. comm., 1998). Therefore, climatic events that render areas unsuitable for nesting may mean that highly who return to that sees for nestine must expend edditional time and energy locating a suitable alternative area. This search may result

In a decreased reproductive success for that year. The long-term street of such neurally occurring caracipolists on mountain ployer viability is not known but nonulations at low abundance are more vulnerable to extirpation by such events. Naturally occurring events can increase the risk of exurpation at local breeding tites

Manmode Exclore Affection Nestion

In addition to jost of habitat, human disturbance during the pesting period may directly impact mountain ployers chae to their sensitivity to stress (Wershier and Wallis 1985), Mountain ployer chicks less than 2 weeks old may die in 15 minutes if shade is not available on days when the tempera exceeds 27° C (61° F) (Graul 1975). Adults have been known to abandon eggs after being disturbed on the nest. and eduits also may die from stress (Graul 1975), Consequently, any human activity that significantly modifies behavior by adults will not only increase the exposure of chicks to instural elements, but also will increase the vulnerability of adults to stressrelated mortality.

Grasshoppers that occur throughout the breeding range of the mountain plover can reach population levels considered a threat to agriculture, and stimulate grasshopper control measures. Although cooperative grasshopper control programs between the Animal and Plant Health Inspection Service (APHIS) and private land owners have been abandoned, federally-subsidized control can be implemented if e severe grasshoper outbreak occurs and congressional funding is provided (L. McEwen, Colorado State University. pers. comm., 1998). Crasshopper control thods can reduce 1" abundance of grasshoppers by more than 90 percent. as well as reduce the abundance of nontarget insects (Fair et al. 1995). Although control is designed to reduce rather than eradicate grasshoppers. mount?" . A year productivity may be influenced oy a reduction in prey abundance (Animal and Plant Health Inspection Service 1987, Graul 1973. Knopf 1996b, Knopf and Rupert 1996) In addition, mountain plovers are at risk from increased metabolism of DDE

residues if their foraging behavior is altered to compensate for this reduced insect abundance (U.S. Environmental Protection Agency (EPA) 1975. Feir et al. 1995). Grasshopper control subsidized by APHIS is designed to minimize impacts to wildlife species: however, due to the reduction in Federal programs to control grasshooper infestations, private landowners may choose control methods that increase

the contaminant risk to mountain ployers. Therefore, anssta-uper control un breefins habitat 's correctional a potential threat to mountain ployers.

Manmade Factors-Wintering

In California, pesticides are applied to col: lyated fields during the 5 months that mountain ployers occupy these winterine habitats (Knopf 1996b) Birds are exposed to pessicides by adsorption through the skin, preening, ingestion. end inhalation (Driver et. el. 1991). To investigate the potential threat of pesticides to mountain ployers, adults were collected from wintering habitats and eggs were collected from breeding habitats (F. Knonf. in litt. 1991). The adults and eggs were analyzed for concentration of organochlorines (hydrocarbon pesticides), selenium, and heavy metals. Forty whole-body samples of adults from the San loaguin Valley had residues of DDE (e principal environmental metabolite of DDD ranging from near 1 to 10 parts per n (1. Carison, Service, 'n litt. 1992: A. Archuleta, Service, pers. comm., 1995). Twenty-two of the 54 ears collected in Colorado end Montana had DDE residues similar to those found in the wintering birds,

Although these DDE residues in cons do not appear detrimental to mountain ver reproduction, residues found in dults may cause death to some individuals if they are mobilized to the brein (U.S. Environmental Protection Agency 1975). While average selentum concentrations found in samples from winter habitats are below thresholds that would cause concern for populatio level effects, individual mountain lovers may be at risk in some locatio Skoning Service pers comm 1993 A Archuleta necs comm (1995) Heav metal concentrations were within acceptable thresholds (A. Archeleta, pers. comm. 1995). We have confirmed that the field

application of 27 pasticides in responsible for killing numerous specie of birds throughout the Nrtie (t. Smith, U.S. Fish and Wildlife Service, in litt. 1992). Diazinon, dimethoate mevinphos, and chiorpyrifos are included on this list of 27 pesticides and are commonly applied to a variety of agricultural crops in imperial Count and the Central Valley of California from November through February (California Department of Pesticide Regulation. in litt., 1998). Ten other pesticides identified by the Service (R. atth. in litt. 1992) as toxic to birds also are used in Imperial County and t Central Valley, but primarily during times when mountain ployers are sheart Studies conducted in the Sen

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Jeaguin Valley, California, to determine sepa-tre of meantan; plovest so organ uphosphases and carbonness were inconclusive. Johdnessress and exivity levels of mountain plovers from the asposed site were consistently higher than those at the reference site, yet significant cholinestense inhibition was not detected in any mountain plover (W. Poviston, dir. 1987).

Conclusion

in summary, threats to mountain ployers occur at both breeding and wintering locales. Conversion of rangeland to croplands has been significant on breeding habitat with ebout 30 percent of rangeland in the Creat Platos now converted to cross. The cultivated lands now interspersed with prairie in the southern part of the piover's breeding range are hypothesized to represent a reproductive sink, which may significantly impact maintenance of e vishie nonulation. Similarly in the San Joaquin Valley, a significant wintering area, only 60,700 ha (150,000 ac) of the velley bottom remain currently ivated, and less than half of thet month may qualify as preferred habitat. Throughout the breeding range, bison are functionally extinct, prairie dogs have been considerably reduced, and current domestic livestock grazing management does not always promote the vegetative and bare ground structure required by mountain ployers. Similarly, the native herbivores that once maintained wintering habitats in California are either functionally or virtually extirpeted, Oil and gas development occurs on core breeding sites on the Pewnee National Grassland. and is presently developing rapidly in southwest Wyoming, Rangeland grasshopper control may impact ountain plover productivity on breeding habitat, and mountain plovers ed to pesticide use while on are exco

wirearing labitiz. We have carefully assessed die best scientific eind commercial information and the science of the science of the mourtain power in determining to issue discuss these sciences of the science of the discuss the science of the mourtain ploves throughout its like opcle and throughout its range, on both public and private lands. Therefore, and the science of the science of the science of the science is labored throughout its like opcle and throughout its range. As the science is labored the science of the science of the science is labored the science of the science of the science is labored the science of the science of the science is labored the science of the science of the science is labored the science of the science of the science is labored the science of the science (Charadrius montanus) as e threatened species. While not in runceliste inner of extinction, we believe une mountain plower is likely to become an endangered species in the foresceeble future unless messure are taken to reverse the decline resulting from the above described thr.c.s.

Critical Habitat

Critical habitat is defined in section 3(5)(a) of the Act as: (1) the specific areas within the geographical area occupied by a species, at the time it is listed in accordance with the Act, on which are found those physical or biological features (I) essential to the conservation of the species and (E) that may require special management considerations or protection and; (ii) specific areas outside the geographical area occupied by a species at the time it is listed, upon e determination that such areas are etsantial for the conservation of the species. The term "conservation" an leftmed in section 3(3) of the Act means 'to use end the use of all methods and procedures necessary to bring any endengered or threatened species to the point at which the measures provided pursuant to this Act are no longer necessary," i.e., the species is recovered and can be removed from the list of dengered and threatened species.

mended, and implementing regulation (50 CFR 424.12) require that, to the maximum extent protent and determinable, the Secretary design critical hebitat at the time the species is determined to be endangered or threatened. Our regulations (50 CFR 424.12(a)(1)) state that designation of critical habitat is not prudent when one or both of ing following situations excist-(i) use species is threatened by taking or other human activity, and identification of critical habitat can be expected to increase the degree of threat to the species, or (2) such designation of critical habitat would not be beneficial to the species. We find that designation of critical habitat for the ployer is not prudant because there would be no dditional banefit to the species beyond that conferred by listing it as threate The seasons for this conclusion including the factors considered in weighing the potential benefits against the risks of designation, are provided

Potential benefits of critical habitat designation derive from section $T(\phi(2)$ of the Act, which requires Federal agencies, in consultation with us, to ensure that their actions are not likely to joppartize the continued existence of listed species or to result in the destruction or diverse modification of critical habitat of such - pecies, Critical Michae habitat, by definition another only to Federal agency actions. The 50 CFR 402.02 defines "Jeoporulize the continued existence of as meaning to engage in an action that would reasonably be experted, directly or M indirectly, to reduce appreciably the likelihood of both the survival and Log recovery of a listed species in the wild by reducing the reproduction, numbers, or distribution of that species. "Destruction of adverse modification C of critical babitat is defined as a direct or indirect alteration that appreciably diminishes the value of critical habitat ŝ Fish for both the survival and recovery of a listed species, Such alterations include has are not limited to, alterations adversely modifying any of those physical or biological features that were and the basis for determining the habitar to be critical. Thus, in the section 7(a)(2) \$ consultation process, the jeopardy analysis focuses on potential effects on the species' populations, whereas the destruction or edverse modification analysis focuses on the value of habitat to the species. However, both eopardizing the continued existence of e species and adversely modifying critical habitat have similar standa and similar thresholds for violation of section 7 of the Act. Biological opinions Attack that conclude that a Federal agency action is likely to edversely modify critical habitat but is not likely to eopardize the continued existence of the species for which critical habitat has been designated are extremely rare historically; none have been issued in recent years. ÷ The mountain olover's distribution age

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and biology are occi 'cularly relevant to the not prodent determination, as it relates to the section 7 consultation process discussed above. The mountain plover is a neotropical migratory bird found in 11 different States in the western and southwestern United States and Mexico, I: occupies grasslands or sites with grassiand characteristics, including manmade landscapes such as sod farms and cultivated fields, and areas heavily grazed by cattle. Mountain plovers commonly occur on public ands at both breeding and wintering locales. The best-documented mountain piover breeding areas include lands managed by either tha BLM or Forest Service in Montane and Colorado. Breeding and wintering mountain anch of these States, as well as in Wyoming, Utah, New Mexico, and California. The habitat in the other locations may be managed by the above esencies, or in e few cases by the

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Service or the Department of Defense. In addition to their necurrence on Federal lends, mountain plovers also occur on nrivate lands which may be enrolled in Federal grograms that support commodity production. Federally sponsored activities on private land will receive the benefit of section 7 consultation, regardless of whether or not critical habitat is designated. As stated above, the mountain plover is a migratory bird that has a wide distribution throughout its breading and winter range, While mountain ployers demonstrate a degree of fidelity to breeding locations, specific nest site locations can very from year to year depending on evallability of essential habitat elements. Studies of mountain niovers on winter habitat in California have shown that winter site fidelity is poorly developed, and flocks of birds may travel over 55 km (33 miles (mi)) between elternate foraging sites. Forther, the mountain niover demonstrates an affinity for sites with a mosaic of short vegetation and bare sround. These attributes are subject to change annually in proportion and distribution due to either natural (e.g., fire succession, seasonel precinitation) or human-coused (e.g., grazing intensity, range management) events, it would be Impractical to designate specific geographic locations as critical hebitot when the essential elements of that babiter may shift temporally and spetially across the landscape. Designation of critical habitat may provide a minor benefit in that it may assist in securing funding or acquiring land for conservation. In some cases, the designation of critical habitat may provide some benefits to a species by identifying areas important to the species' conservation, including habitat that is not presently occupied and that may require restoration efforts to support recovery. In some cases, the designation of critical habitat serves to notify Federal agencies of the presence

of a listed species on land they administer. However, in this case, the Service, the BLM, and the Forest Service are all aware of the presence of the mountain plover on their lands, and in some cases currently perform affirmative management actions for this species.

The bing of the mountain ployer as a threasened species also publicate the present vulnerability of this species. Any designation of critical habita for this species could reasonably be expected to increase the posterial threat of vandalisms or intentional destruction of the species hebita. In light of the vulnerability of this species to vundalism. the intentional destruction

of its habitet (for example itiling nass, tilling grassland habitet). At its habitet examed by birders, it is habitet or itsel habitet it is unservation of maps provide a focations and designation of critical habitet, would example to the sequence of the degree of threat to the species and its habitet, increase the difficulties of law enforcement, and further contribute to the decline of the mountain player.

Therefore, because the mountain ployer is widely distributed on Federal lands and also may occur on private lands enrolled in Federal programs, the designation of critical habitat would remuide little additional benefit beyond that provided by the jeopardy standard the mountain plover's affinity for hubitat elements that are likely to change frequently at both breeding and wintering locales strongly suggest that the biological value of any critical habitat designation would be short lived. Lastly, designation brings about the potential for an increased risk of intentional destruction of birds or their habitat. Consequently, we have ermined that the designation of critical habitat for the United States population of the mountain ployer is not nrudent.

Available Conservation Measures

Potential conservation measures to reverse the declining trend for this species might include incentives to landowners to leave some cultivated trate unplanted until ployer eavy have hatched, grazing plans for native range that encourage high grazing intensity in plover nesting areas, haying and grazing n existing Conservation Reserve Fregram tracts to manage for the grass height and density required by nesting ployers, and seeding criteria for new Conservation Reserve Program tracts that would encourage establishment of narty / shorterasa prairie species in preference to taller grasses. The Service a initiating discussions with the Netural Resources Conservation Service to explore weys, such as the Conservation Reserva Enhancement Program, thet these measures might be

Implemented on private land. Conservation measures provided to e species listed as endangered or threetened under the Act include recognition, recovery actions, requirements for Federal protection, and prohibitions against certain practices. Recognition through listing encourages and leads to the implementation of conservation actions by Federal. State. County, and private agencies, groups, and individuals. The Act provides for

nossible land accussition and Mich monwration with the States and requires that recovery actions are carried out for all listed species. Such actions are initiated by us following "isting. The protection required of Federal agencies and the prohibitions against taking and M harm are discussed. In carr, below Section 71st of the Act mountes Long Federal ogencies to evaluate their actions with respect to any species that is proposed or listed as endangered or red, and with respect to its critical habitat, if any is being destgnated. Regulations implet in this interagency cooperation provision of the Endangered Species Act are codified at 50 CFR part 402. Section Fish 7(a)(4) of the Act requires Federal agencies to confer informally with us on and any action that is likely to jeopardize the continued existence of a proposed species or result in destruction or wiverse modification of proposed Mildi critical habitar. If a species is listed subsequently, section 7(a)(1) provides that all Federal agencies shall utilize their authorities in furtherance of the purpose of the Act by carrying out Ser programs for the conservation of species litered nursusant to the Act. Further, section 7(a)(2) of the Act requires 100 Federal agencies to ensure that activities they authorize, fund, or carry out are not likely to jeopardize the continued Attachment evistance of such a species or to destroy or advertally movify its critical habitat if a Federal action may affect a listed species or its critical habitat the responsible Federal agency must enter tore formal consultation with us Consequently, Federal listing will cause 10 all Federal agencies to consider mountain ployer conservation needs age during their review of accounts they may fund, authorize, or carry out. 18

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Section (0(a)(2)(A) of the Act allows for the incidental taking of federally listed species on private lands, where no Federal agency action exists, provided the applicant adopts a habitat conservation plan (HCP) to minimize the degree of take while furthering the conservation of the species. We anticipate that HCPs will be requested should the mountain plover become a federally listed species. We encourage and will participate in the development of HCPs to ensure that mountain ployers can be conserved throughout rheir range while authorizing incidental take associated with otherwise lawful activities. We believe that habitat modification techniques shown to be effective for the mountain plover can be Incorporated Into HCPs that may be implemented at breeding or wintering locales

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A unique Memorandum of Agreement A unique wentorshiftum of Age Secretary of the Department of the Investor and the Covernor of Colorado The purpose of the MOA is to address the conservation needs of declining species in Colorado, with a goal of preventing their decline to a point at which Federal listing could be needed. The mountain plover is mentioned specifically in this MOA, and a work group now exists to address its needs. We have participated dilleently with the work group to pursue the goals of the MOA and believe that the MOA can be an effective vehicle to promote and Implement mountain ployer interpretation antions in Colorado and perhaps encourage similar conservation actions in adjoining States.

Mountain ployers occur on lands iministered by the Service, Forest Service. BLM, and other agencies. For all cubilc lands where mountain ployed an public lands where mountain annyopriate land management agency to evaluate potential impacts to mountain ployers that may result from activities ev fund authorize or carry out. The Act requires consultation under section 7 of the Act for activities on private lands, including tribal lands, that may impact the survival and recovery of the mountain ployer. If such activities are mountain plower, if such activities are funded, authorized, or permitted by Federal agencies. The Federal agencies that may be involved as a result of this proposed rula include the Service, BLM, Forest Service, APHLS, Bureau of Indian Affairs, Natural Resources Conservation Service, Farm Services Agency, Department of Defense, Department of Energy, Department of Justice, and the EDA

Federal agency actions that may require conference and/or consultation as described in the preceding paragraphs include: (1) Removing, thinning or altering

veretation. Mountain plover nest sites have short vegetation, while taller vegetation may be required by chicks for de and hiding cover;

(2) Modifying topography and soils at breeding sites. Mountain plover nest sites are on land with less then 5 percent slope, and usually have at least 30 percent bare ground. Any activity that alters one of these characteristics would likely be detrimental; (3) Domestic livestock grazin

management. The current state of knowledge indicates that domestic livestock grazing intensity influences the quality of mountain plover habitat. Review of grazing management proposals would be necessary to determine their compatibility with the mountain plover and its habitat. Those proposals that adversely affect a species or its habitat fe.g., thering vegetative structure or composition that destroys spiteble babitat characteristics) would require reasonable and prudent alternatives or reasonable and prudent sures to minimize incidental take: (4) Controlling burrow ing rodents. Prairie dogs, giant kangaroo rats, and California ground squirrels are known to create suitable conditions for mountain minueses

(5) Conversion of untilled grassland to rilled land. While mountain ployers are found on grassiends, they are attracted to cultivated lands for foraging opportunities and nesting, which makes them vulnerable to effects from tilling and pesticide application. Therefore, cultivated lands are likely a reproductive sink. Therefore, Federal programs that encourage conversion of grasslands to cultivated land could be detrimental to the contervation of that ountain plover;

(6) Human activities near nesting nountain plovers. Federal proposals or permits for activities that would create disturbance during the nesting period could interfere with normal nesting chavior and result in the death of ergs. chicks and/or adults: (7) Registration of pesticides. Wa have

documented that numerous pesticides are toxic to birds during field application and some of these pesticides are used while mountain plovers breeding and wintering habitats; (6) Oil, gas, or mineral development in known nesting or wintering habitat.

The Act and implementing regulations found at 50 CFR 17.21 and 17.31 set forth a series of general prohibitions and exceptions that apply to all threatenrd wildille. The prohibitions, coulfied .: 50 CFR 17.21 and 17.31, in part, make it tilepal for any rion subject to the jurisdiction of the United States to take (Includes harasa harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or attempt any of these), import or export, ship in interstate communct in the course of commercial activity, or sell or offer for sala in interstate or foreign commerce any such species. It also is illegal to possess, sell, deliver, carry, transport, or ship any such wildlife that has been taken illegally. Certain exceptions apply to agents of the Service and

unservation agencies. Under certain circumstances, permits may be issued to carry out otherwise prohibited activities involving threatened wildlife species. Rem governing permits are codified at 50 CFR 17.32. Such permits are available for scientific purposes, enhancement of propagation or survival of the species.

educational purposes, zoological Mich evisibution. Incidental take in rennection with ethic wise lawful activities, and/or other special puro consistent with the purposes of the Act. Requests for copies of the regulations respring listed wildlife and insulries M about prohibitions and permits may be addressed to the Permus Branch 115 -Fish and Wildlife Service P() Box 25486, Denver Federal Center, Denver ag. alorado E0225-0207 (telephone 303/ 275-2370; facstmile 303/273-2371). d We adopted a policy on July 1, 1994 (59 FR 34272), to identify to the simum extent practicable, at the time a species is proposed for listing, those ч constitute a violation of section 9 of the s-Act. The intent of this policy is to and increase public awareness of the effect of the listing on proposed and ongoing activities within a species' range. Wa \$ believe that the actions listed below would probably not result in a violation of mention Q (I) Activities authorized, funded, or

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curried out by Federal apencies (e.g., graphic management, agricultural conversions, range management, rodent control mineral development oil and gas development, road construction. man recreation, and pesticide annitication) when such activity is Att conducted in accordance with any reasonable and prudent measures given by us in accordance with section 7 of

(2) Within the breeding range, normal farming practices on cultivated lands. prescribed burns, and construction/ maintenance activities (e.g., fences, power lines, pipelines, and utility lines) 10 ag conducted when mountain ployers are not present on breeding hubbar. The pariod when activities would not 15 impact mountain ployers may very at tific locations, but would usually fall between August 10 and April 1;

(3) Within the wintering range. normal winter farming practices on sod farms and tilled cropiand. (4) Casual, dispersed human activities

on foot or horseback at breeding and wintering habitats (e.g., waterfowl hunting, bird watching, sightseeing, hotography, camping, and hiking; (5) Normal, routing domestic livestock nho

grazing, herding, and inspecting. including maintenance of livestock ent structures; and

(6) Application of pesticides in accordance with label restrictions or County Builatins that have resulted from Endangered Species Act consultation

We believe that the actions listed below might potentially result in a violation of section 9: however, possible

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violations are not limited to these actions alone:

handling of the species: (2) The unauthorized destruction of mountain ployees including adults. nests, eggs, and/or young by any human activity or any human activity resulting to actual cleath or interv to the species by significantly modifying essential behavioral natterns (e.e., breeding, feeding, sheltering). Examples of human on cultivated land during the breeding season: land leveling, conversion of grassiand to cropland, roed construction water development, range management, mineral development, or off-highway vehicle use, in any season on non-cultivated lands that serve as (3) Application of pesticides in

violation of County Bulletins or Jabel matrictions: and (A) Interstate or foreign commerce

commerce across State or international boundaries) and import/export (as discussed earlier in this section) without having obtained a threatened angeles permit. Permits to conduct these activities are available for purposes of scientific research and enhancement of propagation or survival of the species. Questions regarding whether specific activities, such as changes in land use, should be directed to the Assistant Field Supervisor (see ADDRESSES section). The prohibition against intentional

and unintentional "take" of listed species applies to all landowners regardless of whether or not their lands are within critical habitat (see 16 U.S.C. 1538(a)(1), 1532(1a), and 50 CFR 17.3). Section 10(a)(1)(2) authorizes us to issue permits for the taking of listed species incidental to otherwise lawfui activities such as agriculture, surface mining, and urban development. incidental take permits must be supported by an HCF that identifies manufaction monsures that the permittee agrees to implement to conserve the species, usually on the permittee's lands. For example, no-till practices that leave tall stubble may successfully cause ployees to avoid cropland. On fallow ground, the type of farm implement used and the timing of the use may be significant in producing more plovers. These and other techniques to avoid plovers or produce plovers can be examined by producers in the devalopment of an HCP. A key element in our review of an HCP is a determination of the plan's effect upon the long-term conservation of the spectes. We would approve an HCP, and issue a section 10(a)(1)(B) permit, if the

olan would minimize and mitigate the minary of the taking and would not appreciably reduce the IB elibood of the survival and recovery of that socies in the wild.

Public Comments Solicited

We intend that any final action resulting from this proposal will be as accurate and as effective as possible. Therefore, comments or suggestions from the public, other concerned governmental agencies, the scientific community industry, or any other interested party concerning this posed rule are hereby solicited.

We are seeking comments particularly oncerning: (1) Biological, commercial trade, or other relevant data concerning any threat (or lack thereof) to the mountain

(2) The location of any additional breeding, wintering, or migration sites. Including areas in Mexico and Canada; (3) Additional Information concerning

mountain ployer distribution. opulation size and/or population

(4) Information regarding current or lanned land uses, and their possible ineficial or negative impact to the mountain ployer or its hebitst (e.c., sericultural conversions, oil and gas development, land exchanges, range management, habitat conservation niana, conservation ensements);

(5) Information regarding mountain invers on their wintering habitats (e.g., preferential use of natural vacuus asticultural lubitats, habitat distribution and abundance, daily routines, night mosts site fidelity, population shundance)

161 additional biological or physical elements that best describe mountain plover habitat, that could be considered essential for the conservation of the mountain ployer (a.g., burrowing rodent

colonies, vegetation, food, topography); (7) Information relative to mountain nlover distribution and productivity on cultivated lands, shortgrass prairie, and shrub-steppe habitats: (6) Alternative farming practices that

will reduce or eliminate the take of morrntain ployers:

(9) Other management strategies that will conserve the species throughout its range; and

benefits of critical habitat designation. Final promulgation of the regulations on this species will take into consideration the comments and any

additional information received by us. Such communications may lead to a final regulation that differs from this nronosal

The Act newsides for one or more public hearings on this proposal, if requested. Requests must be received within 45 days of the date of publication of the proposal in the Federal Register. Such requests must be made in writing and addressed to the Assistant Fluid Company loss loss 1000052559 section1

Executive Order (285b) rectures each agency to write regulations that are easy in understand. We invite your SIL. comments on how to make this rule easier to understand including answers C to questions such as the followine: (1) Are the requirements in the rule clearly stated? (2) Does the rule contain ò ч technical language or jargon that interferes with its clarity? (3) Does the format of the rule (grouping and order Ë of sections use of headings paragraphing, etc.) aid or reduce its clarity? (4) Would the rule be easier to understand if it were divided into more ≸ (but shorter) sections? (5) is the description of the rule in the BUFFLEMENTARY INFORMATION Section of the preamble heinful in understanding the mie? What else could we do to make Service the rule easier to understand

Send a copy of any comments that concern how we could make this rule essier to understand to: Office of Regulatory Affairs, Department of the Interior, room 7229, 1849 C Street, NW. Washington, DC 20240, You may also e mail the comments to this address: Exected Rios doi nov

National Environmental Policy Act

Attachment We have determined that Environmental Assessments and ы Environmental Impact Statements, as defined under the authority of the National Environmental Policy Act of (040 need not be prenered concerning 20 regulations adopted pursuant to section 4(a) of the Act of 1973, as amended. A notice outlining our reasons for this determination was published in the Federal Register on October 25, 1983 (45 FR 49244)

Remired Determinations

This rule does not contain any new collections of information other than those already approved under the Penerwork Reduction Act. 44 U.S.C. 3501 et seq., and assigned Office of Menagement and Budget clearance number 1018-0094. An agency may ne conduct or sponsor, and a person is no required to respond to a collection of information, unless it displays a currently valid control number. For additional information concerning nermit and associated requirements for threatened species. see 50 CFR 17.32.

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Letter 94	 Michael M. Long, U.S. Fish and W 	'ildlife Service, Attachment Page 21
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7.2.94.2 Letter 94 Comment Response

<u>Comment Response: Entire Letter</u> - Thank you for taking the time to review the DEIS and for providing your comments. The BLM considers all comments during preparation of an EIS.

Comment Response 1 - Comment noted.

<u>Comment Response 2</u> - The BLM believes the alternatives provided in the DEIS are sufficient for the NEPA process and that they provide augmented environmental protection for the most sensitive area resources present on federal lands. The BLM concurs that under Alternatives A or B overall disturbance within SRAs may be no different from that of the Proposed Action; however, since additional disturbance above the Alternative A and B thresholds would occur on private land, the BLM's authority is limited. Development on federal lands to protect areas from drainage could occur under any alternative, and if Alternative A or B is selected, this development could temporarily result in the exceedance of disturbance acreage thresholds, however, all other mitigations would remain in place, and the BLM would require Operators to reclaim areas as sono

While the ROD for this project will identify specific mitigation requirements, the BLM believes that specific mitigations belong under any alternative potentially selected. Please note that while no power lines have been specifically identified for this project, if they are necessary, they would not be built within 0.6 mi of sage grouse leks (see DEIS Section D-2.3.3). This mitigation measure has been added to this FEIS (see Section 4.2.3.2).

<u>Comment Response 3</u> - Regardless of whether oil and gas operating procedures are improved (i.e., decreased acreage requirements), the proposed project still exceeds the reasonably foreseeable development estimate provided in the GDRA RMF, however, the BLM will not authorize development that exceeds this estimate. The improvement in oil and gas operating procedures are provided in DEIS Section 1.2.4 to show that, while total well numbers in the RFO area may exceed the numbers identified as reasonably foresceeable in the RMP, total impacted acreage remains, at present, less than that anticipated in the RMP. The BLM concurs and the analyses in the DEIS show that impacts occur byond the actual area of surface disturbance (e.g., indirect effects associated with human presence, traffic).

<u>Comment Response</u> 4 - The BLM believes the disturbance arcrage estimates provided in the DEIS are valid. RMP estimates of 11.2 acres/well were developed prior to our current understanding of oil and gas development in the RFO area and did not include recent efficiencies in field development. The 9.0 acres per well was developed based on existing long-term disturbance acreage estimates from the CD/WIIPA. The 402 acres/well comes from past NEPA analyses for RFO area projects, many of which were developed prior to the conset of current oil and gas development procedures. The 2.77 acres/well proposed for this project by the Operators is not an underestimate, it merely reflects the fact that for the in-field developments proposed, the total length of roads and pipes to well locations is reduced. The BLM will not authorize unnecessary and undue disturbance as can be seen in the DEIS alternatives rejected section (DEIS Section 2.5), where an alternative alting for increased disturbance was rejected.

<u>Comment Response 5</u> - No water from the Platte River system would be used for this project, and it is unlikely that the ground water obtained from southern portions of the CoD/WIFA would be in connection with the surface waters of the Colorado River system. In any event, there is no potential for depletions of greater than 100 acre-ft per year (see DEIS Section 4.1.7.1). Where connection is possible (i.e., wells in the Antelope/Bitter Creek area), the USFWS would be contacted.

Comment Response 6 - SRAs are described in DEIS and FEIS Section 2.2 and include areas with stabilized sand dunes, raptor nesting concentration areas, 2.0-mi sage grouse nesting buffers, crucial big game winter ranges, areas proximal to residences, VRM Class II areas, and areas with high densities of cultural resource sites (see revised Map 2.3 in this FEIS). Increased resource protection would occur in SRAs under Alternatives A and B through surface disturbance limitations. Mitigation measures for this project designed to protect the aforementioned resources would be applied under any alternative selected. In the event that disturbance limitations are temporarily waived to protect the drainage of federal minerals, all other existing mitigation measures would remain in effect, and the BLM would require Operators to reclaim areas as soon as possible to bring the area back in compliance with the surface disturbance limitation criteria.

<u>Comment Response 7</u> - Comment noted. As stated in DEIS Section 2.5, the BLM has limited control over well spacing/density and non-federal land developments.

<u>Comment Response</u> 2 - The disturbance acreage estimates presented in Table 2.1 are correct. Three well locations could be developed in SRAs under Alternative A if unnecessary shortterm disturbance at two of the locations was adequately reclaimed prior to the initiation of development at the third location.

<u>Comment Response</u> 9 - Regardless of the level of development on private and state lands, the BLM cannot preclude development on federal leases. Once lands are leased, the BLM is obligated to allow development. Mitigation measures would be applied under all alternatives. At present, the BLM is unaware of any additional and reasonable potential mitigation measures. If additional measures are identified, the BLM would include these potential measures in future analyses.

<u>Comment Response 10</u> - See Comment Response 6, above. Potential drainage situations are identified by the BLM Reservoir Management Group based on known well locations and assumed area of well influence. Actual drainage is determined by first calculating recoverable reserves (usually 6 months of production history) and by measuring or calculating reserve parameters.

With this information, a radial drainage circle is then calculated. If the drainage circle intersects a federal lease line, then actual drainage is occurring. This information has been added to this FEIS (see Section 1.2.8).

Comment Response 11 - Please refer to Comment Responses 6, 7, 8, 9, and 10, above.

<u>Comment Response 12</u> - Disturbance acreage estimates include topsoil removal and stockpile areas. The BLM concurs that roads and associated traffic would likely have the greatest impact on area wildlife, and all measures to minimize surface disturbance from roads would be applied (see DEIS Appendix B).

<u>Comment Response 13</u> - No oil pits are proposed for this project. Reserve pits and other areas containing materials potentially hazardous to wildlife would be isolated from wildlife as identified in DEIS Section 2.6.139, items 3 and 5. Additional protection measures (e.g., netting of all pits) may be applied as identified in the ROD for this project.

Comment Response 14 - Please refer to Comment Response 5, above.

Comment Response 15 - The BLM has included this item as a potential mitigation measure in this FEIS (see Section 4.2.3.2).

<u>Comment Response 16</u> - Applicant-committed mountain plover survey protocol have been modified in this FEIS to more accurately reflect current USFWS survey methods (see FEIS Section 26.13.9). Furthermore, since applicant-committed measures are not entirely consistent with USFWS methods, the BLM has included all the relevant text of the revised USFWS presence/absence determination protocol (see FEIS Section 4.2.5.5). Formal conferencing with the USFWS regarding impacts to mountain plover habitats has been initiated, and additional standards for protection may be applied based on conference results. Conference results will be identified in the ROD for this project.

<u>Comment Response 17</u> - The text has been modified in this FEIS to reflect your comments, and the BLM does initiate informal consultation prior to permitting for all proposed ground-disturbing activities within active prairie dog towns or complexes.

Comment Response 18 - Please refer to Comment Response 5, above.

<u>Comment Response 19</u> - Comment noted, and while no changes to the DEIS text have been made in Chapter 3.0, changes have been made to Appendix E.

Comment Response 20 - See Comment Response 2, above.

Comment Response 21 - Please refer to Comment Response 16, above.

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Comment Response 22 - The BLM would adhere to the directives identified in the February 23, 1999, memo.

<u>Comment Response 23</u> - The BLM is wholly committed to plan implementation, and a Cooperative Agreement among participating agencies and Operators is currently being developed to further specify responsibilities. The BLM appreciates USFWS's desire for involvement, and we will continue working with the USFWS on plan implementation.

<u>Comment Response</u> 24 - Comment noted; however, since the BLM may not be able to determine areas with ≥4 locations per section in advance of development, it is anticipated that the inventory and monitoring actions identified for these areas would not occur until after development. Nonetheless, the inventory and monitoring efforts identified for the entire CD/WIIPA would occur on these areas prior to development (see DEIS Table D-2.1).

<u>Comment Response 25</u> - The BLM will involve the USFWS in discussions as to when black-footed ferret surveys should or should not be required, as deemed appropriate by BLM biologists. See also Comment Response 17, above.

<u>Comment Response 26</u> - Comments noted, and some text changes have been made in this FEIS. Please be advised that if this project is authorized, the BLM will require mountain plover surveys to be conducted pursuant to USFWS protocol (see FEIS Section 42.5.7). See also Comment Response 16, above. Since the Wildlife Plan as currently written is an applicant-committed measure, not all of your proposed plan revisions have been made (see FEIS Section D-22.2.3).

<u>Comment Response 27</u> - The BLM will inform the USFWS of any observations of federally listed, proposed, or candidate species made during wildlife surveys.

Comment Response 28 - Please refer to Comment Responses 24 and 26, above.

<u>Comment Response 29</u> - Comment noted; however, the BLM believes the 825-ft avoidance area currently proposed is adequate, based on the flushing distances found by Call (unpublished data) in an undeveloped area of the Shamrock Hills.

Comment Response 30 - Please refer to Comment Responses 17 and 25, above.

<u>Comment Response 21</u> - While it is beyond the scope of this EUS to require informal consultation with the USFWS prior to offering leases, your comment has been forwarded to the BLM State Office, and meetings to discuss this issue and others have been conducted. The USFWS will now receive for review BLM's quarterly proposed lease lists, and the USFWS will be solicited for input on all future RMP reviews. Please be assured that site-specific information on potential impacts to federally listed, proposed, and candidate species is gathered prior to development on leased lands during APD and ROW application processing, and conditions of approval would be applied to development proposals to ensure no adverse effects to listed species. <u>Comment Response 32</u> - Your comment is noted, and the text has been changed accordingly in this FEIS.

<u>Comment Response 33</u> - Your comment is noted, and the table has been changed accordingly in this FEIS.

<u>Comment Response 34</u> - Your comment is noted, and formal consultation with your office to address potential impacts to the black-footed ferret is being conducted. The outcome of this consultation will be presented in the ROD for this project.

<u>Comment Responses 35</u> - Where surveys are required, they would be conducted in accordance with the black-footed ferret survey guidelines, presented in USFWS (1989). According to the guidelines, surveys would be conducted on the portions of prairie dog towns found within 0.5 m io f the proposed construction site or ROW border. The BLM is aware that surveys may be necessary in some areas of prairie dog towns that have burrow densities of less than eight per are.

<u>Comment Response</u> 36 - Surveys for black-footed ferrets would be conducted prior to permit issuance, and if ferrets are found, the USFWS would be consulted to determine necessary project implementation criteria to ensure no adverse effects to ferrets. These criteria would likely involve moving proposed project locations to areas outside of prairie dog colonies. Based on lease term number 6, in the event black-footed ferrets are found and there are no suitable locations on the lease where development could occur without impacting ferret habitat, the BLM would deny surface occupancy on the lease. Changes have been made to the Biological Assessment (see FEIS Appendix E).

<u>Comment Responses</u> 27 - Please refer to Comment Responses 17 and 25, above. Decisions on the applicability of surveys with respect to ferret survey guidelines (USFWS 1989) would be thoroughly documented; however, due to the level of effort involved in providing this information to the USFWS, coupled with the authority granted BLM under our current MOU with the USFWS, the BLM believes it is unnecessary to provide the USFWS with this documentation. However, if requested by the USFWS, documentation regarding survey applicability will be provided during informal consultation.

<u>Comment Response 38</u> - The USFWS would be informed of all actions that could potentially affect federally listed, proposed, or candidate species or their habitats on non-federal lands accessed by proposed project features (see DEIS Table E-4.1).

Comment Response 39 - Comment noted, and appropriate text changes have been made in this FEIS.

<u>Comment Response 40</u> - The BLM requested formal conferencing procedures with the USFWS to address effects on mountain plover, and the results of this conferencing will be presented in the ROD for this project.

Comment Response 41 - Please refer to specific comment responses, above.

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Final environmental impact statement, Continental

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